

9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

| OPERZTION Band | EUT CATEGORY | | LIMIT |
|----------------|--------------|-----------------------------------|-----------------------------------|
| U-NII-1 | | Access Point (Mater device) | 1 Watt(30dBm) |
| | | Fixed point-to-point Acess Ponit | 1 Watt(30dBm) |
| | √ | Mobile and portable clinet device | 250mW(23.98dBm) |
| U-NII-2A | | | 250mW(23.98dBm) or 11dBm+10 log B |
| U-NII-2C | | | 250mW(23.98dBm) or 11dBm+10 log B |
| U-NII-3 | √ | | 1 Watt(30dBm) |

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;

Array Gain = 5 log(NANT/NSS) dB or 3 dB, whichever is less for 20-MHz channel widths with NANT ≥ 5.

For power measurements on all other devices: Array Gain = 10 log(NANT/NSS) dB.

Note:

The antenna gain is granter than 6 dBi in Beamforming mode the limit reduce as below:

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

| | Effective Legacy Gain (dBi) | Limit |
|---------|-----------------------------|--------------------------------------|
| UNII-1 | 5.26+3.01=8.27dBi | 23.98dBm – (8.27 – 6 dBi) = 21.71dBm |
| U-NII-3 | 5.83+3.01=8.84dBi | 30 dBm – (8.84 – 6 dBi) = 27.16dBm |

Therefore the limit needs to reduce for the UNII-1 and U-NII-3 band.

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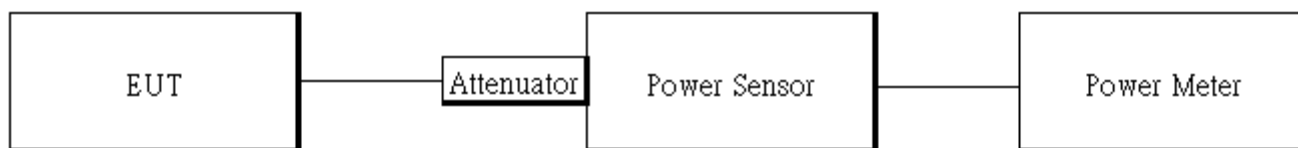
9.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

9.3 Measurement Equipment Used

| SGS Conducted Room | | | | | |
|-----------------------|---------------|--------------|---------------|------------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| Power Meter | Anritsu | ML2495A | 1005007 | 12/09/2015 | 12/08/2016 |
| Power Sensor | Anritsu | MA2411B | 917032 | 12/09/2015 | 12/08/2016 |
| EXA Spectrum Analyzer | Agilent | N9030A | MY53120760 | 02/26/2016 | 02/25/2017 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/02/2016 | 01/01/2017 |
| Coaxial Cable | HUBER+SUHNER | SUCOFLEX 102 | 23670/2 | 01/02/2016 | 01/01/2017 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 01/02/2016 | 01/01/2017 |
| Splitter | Agilent | 11636B | N/A | 01/02/2016 | 01/01/2017 |
| DC Power Supply | Agilent | E3640A | MY52410006 | 11/05/2015 | 11/04/2016 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 05/17/2016 | 05/16/2017 |

9.4 Test Set-up



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9.5 Measurement Result

Conducted output power (FCC)

802.11a_MIMO

| CH | Frequency (MHz) | Data Rate | AVERAGE POWER (dBm) | | | | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|---------------------|-------|-------|-------|-------------------|------------------|----------------------|--------|
| | | | CH 0 | CH 1 | CH 2 | CH3 | | | | |
| 36 | 5180 | 6 | 11.68 | 12.06 | 11.07 | 11.41 | 17.59 | 57.422 | 23.98 | PASS |
| 44 | 5220 | 6 | 12.14 | 12.42 | 11.62 | 12.14 | 18.11 | 64.716 | 23.98 | PASS |
| 48 | 5240 | 6 | 12.06 | 12.53 | 11.65 | 12.21 | 18.14 | 65.231 | 23.98 | PASS |
| 149 | 5745 | 6 | 12.22 | 13.04 | 11.64 | 11.89 | 18.25 | 66.850 | 30 | PASS |
| 157 | 5785 | 6 | 12.34 | 13.06 | 11.51 | 11.69 | 18.21 | 66.285 | 30 | PASS |
| 165 | 5825 | 6 | 12.45 | 13.02 | 11.28 | 11.42 | 18.12 | 64.919 | 30 | PASS |

CDD Mode:

802.11n_HT20_MIMO

| CH | Frequency (MHz) | Data Rate | AVERAGE POWER (dBm) | | | | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|---------------------|-------|-------|-------|-------------------|------------------|----------------------|--------|
| | | | CH 0 | CH 1 | CH 2 | CH3 | | | | |
| 36 | 5180 | MCS24 | 12.02 | 12.33 | 11.81 | 12.27 | 18.13 | 65.058 | 23.98 | PASS |
| 44 | 5220 | MCS24 | 12.29 | 12.66 | 11.89 | 12.31 | 18.32 | 67.868 | 23.98 | PASS |
| 48 | 5240 | MCS24 | 12.2 | 12.66 | 11.98 | 12.33 | 18.32 | 67.922 | 23.98 | PASS |
| 149 | 5745 | MCS24 | 12.65 | 12.99 | 11.98 | 12.15 | 18.48 | 70.496 | 30 | PASS |
| 157 | 5785 | MCS24 | 12.59 | 13.21 | 11.89 | 12.03 | 18.48 | 70.508 | 30 | PASS |
| 165 | 5825 | MCS24 | 12.65 | 13.25 | 11.73 | 11.98 | 18.46 | 70.212 | 30 | PASS |

802.11n_HT40_MIMO

| CH | Frequency (MHz) | Data Rate | AVERAGE POWER (dBm) | | | | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|---------------------|-------|-------|-------|-------------------|------------------|----------------------|--------|
| | | | CH 0 | CH 1 | CH 2 | CH3 | | | | |
| 38 | 5190 | MCS24 | 12.36 | 12.29 | 11.83 | 12.61 | 18.30 | 67.642 | 23.98 | PASS |
| 46 | 5230 | MCS24 | 12.56 | 12.56 | 11.88 | 12.53 | 18.41 | 69.383 | 23.98 | PASS |
| 151 | 5755 | MCS24 | 12.52 | 12.88 | 11.53 | 12.01 | 18.29 | 67.382 | 30 | PASS |
| 159 | 5795 | MCS24 | 12.43 | 13.13 | 11.37 | 11.82 | 18.26 | 66.972 | 30 | PASS |

802.11ac_VHT80_MIMO

| CH | Frequency (MHz) | Data Rate | AVERAGE POWER (dBm) | | | | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|---------------------|-------|-------|-------|-------------------|------------------|----------------------|--------|
| | | | CH 0 | CH 1 | CH 2 | CH3 | | | | |
| 42 | 5210 | MCS0 | 11.32 | 11.44 | 10.72 | 11.54 | 17.29 | 53.543 | 23.98 | PASS |
| 155 | 5775 | MCS0 | 11.26 | 11.86 | 10.15 | 10.71 | 17.06 | 50.840 | 30 | PASS |

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Beam Forming Mode:

802.11n_HT20_MIMO

| CH | Frequency (MHz) | Data Rate | AVERAGE POWER (dBm) | | | | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|---------------------|-------|-------|-------|-------------------|------------------|----------------------|--------|
| | | | CH 0 | CH 1 | CH 2 | CH 3 | | | | |
| 36 | 5180 | MCS24 | 12.55 | 12.23 | 12.21 | 12.74 | 18.46 | 70.127 | 21.71 | PASS |
| 44 | 5220 | MCS24 | 12.23 | 11.75 | 11.86 | 12.52 | 18.12 | 64.884 | 21.71 | PASS |
| 48 | 5240 | MCS24 | 12.25 | 11.85 | 11.93 | 12.56 | 18.18 | 65.725 | 21.71 | PASS |
| 149 | 5745 | MCS24 | 12.47 | 12.22 | 11.59 | 12.67 | 18.28 | 67.247 | 27.16 | PASS |
| 157 | 5785 | MCS24 | 12.25 | 12.35 | 11.71 | 12.58 | 18.25 | 66.906 | 27.16 | PASS |
| 165 | 5825 | MCS24 | 12.3 | 12.26 | 11.75 | 12.42 | 18.21 | 66.230 | 27.16 | PASS |

802.11n_HT40_MIMO

| CH | Frequency (MHz) | Data Rate | AVERAGE POWER (dBm) | | | | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|---------------------|-------|-------|-------|-------------------|------------------|----------------------|--------|
| | | | CH 0 | CH 1 | CH 2 | CH 3 | | | | |
| 38 | 5190 | MCS24 | 12.56 | 11.91 | 12.02 | 12.84 | 18.37 | 68.707 | 21.71 | PASS |
| 46 | 5230 | MCS24 | 12.62 | 12.14 | 12.09 | 12.88 | 18.47 | 70.239 | 21.71 | PASS |
| 151 | 5755 | MCS24 | 12.25 | 12.01 | 11.43 | 12.59 | 18.11 | 64.728 | 27.16 | PASS |
| 159 | 5795 | MCS24 | 12.1 | 12.17 | 11.42 | 12.5 | 18.09 | 64.350 | 27.16 | PASS |

802.11ac_VHT80_MIMO

| CH | Frequency (MHz) | Data Rate | AVERAGE POWER (dBm) | | | | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|---------------------|-------|-------|-------|-------------------|------------------|----------------------|--------|
| | | | CH 0 | CH 1 | CH 2 | CH 3 | | | | |
| 42 | 5210 | MCS0 | 11.36 | 10.76 | 10.85 | 11.91 | 17.27 | 53.275 | 21.71 | PASS |
| 155 | 5775 | MCS0 | 11.33 | 11.38 | 10.54 | 11.82 | 17.31 | 53.853 | 27.16 | PASS |

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10. PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

| OPERZTION Band | EUT CATEGORY | | LIMIT |
|----------------|--------------|----------------------------------|---------------|
| U-NII-1 | | Access Point (Mater device) | 17dBm/ MHz |
| | | Fixed point-to-point Acess Ponit | |
| | √ | clinet device | 11dBm/ MHz |
| U-NII-2A | | | 11dBm/ MHz |
| U-NII-2C | | | 11dBm/ MHz |
| U-NII-3 | √ | | 30dBm/ 500kHz |

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;

Array Gain = 5 log(NANT/NSS) dB or 3 dB, whichever is less for 20-MHz channel widths with NANT ≥ 5.

For power measurements on all other devices: Array Gain = 10 log(NANT/NSS) dB.

Note:

The antenna gain is granter than 6 dBi in Beamforming mode the limit reduce as below:

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

| | Effective Legacy Gain (dBi) | Limit |
|---------|-----------------------------|-----------------------------------|
| UNII-1 | 5.26+3.01=8.27dBi | 17dBm – (8.27 – 6 dBi) = 14.73dBm |
| U-NII-3 | 5.83+3.01=8.84dBi | 30dBm – (8.84 – 6 dBi) = 27.16dBm |

Therefore the limit needs to reduce for the UNII-1 and U-NII-3 band.

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10.2 Measurement Procedure

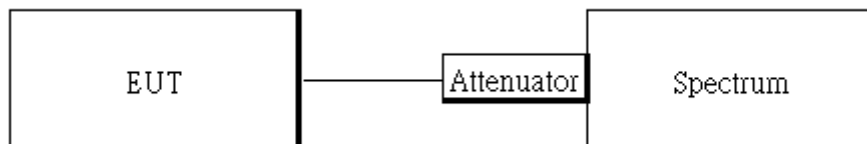
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1**
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=500 kHz, VBW \geq 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome

10.3 Measurement Equipment Used

| SGS Conducted Room | | | | | |
|-----------------------|---------------|-----------|---------------|------------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| EXA Spectrum Analyzer | Agilent | N9030A | MY53120760 | 02/26/2016 | 02/25/2017 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/02/2016 | 01/01/2017 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 01/02/2016 | 01/01/2017 |

10.4 Test Set-up



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10.5 Measurement Result

| POWER DENSITY 802.11a MODE | | | |
|----------------------------|------------|-------------|-------------|
| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
| 5180 | -0.01 | 17 | -17.01 |
| 5220 | 1.17 | 17 | -15.83 |
| 5240 | 5.31 | 17 | -11.69 |
| 5745 | 12.29 | 30 | -17.71 |
| 5785 | 12.75 | 30 | -17.25 |
| 5825 | 16.92 | 30 | -13.08 |

CDD Mode:

| POWER DENSITY 802.11n HT20 MODE | | | |
|---------------------------------|------------|-------------|-------------|
| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
| 5180 | 2.54 | 17 | -14.46 |
| 5220 | 5.59 | 17 | -11.41 |
| 5240 | 6.15 | 17 | -10.85 |
| 5745 | 14.63 | 30 | -15.37 |
| 5785 | 14.48 | 30 | -15.52 |
| 5825 | 14.57 | 30 | -15.43 |

| POWER DENSITY 802.11n HT40 MODE | | | |
|---------------------------------|------------|-------------|-------------|
| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
| 5190 | -3.72 | 17 | -20.72 |
| 5230 | -3.79 | 17 | -20.79 |
| 5755 | 12.60 | 30 | -17.40 |
| 5795 | 15.28 | 30 | -14.72 |

| POWER DENSITY 802.11ac VHT80 MODE | | | |
|-----------------------------------|------------|-------------|-------------|
| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
| 5210 | -13.48 | 17 | -30.48 |
| 5775 | 8.15 | 30 | -21.85 |

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Beam Forming Mode:

| POWER DENSITY 802.11n HT20 MODE | | | |
|---------------------------------|------------|-------------|-------------|
| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
| 5180 | 4.83 | 14.73 | -9.90 |
| 5220 | 4.13 | 14.73 | -10.60 |
| 5240 | 4.79 | 14.73 | -9.94 |
| 5745 | 9.89 | 27.16 | -17.27 |
| 5785 | 9.15 | 27.16 | -18.01 |
| 5825 | 9.29 | 27.16 | -17.87 |

| POWER DENSITY 802.11n HT40 MODE | | | |
|---------------------------------|------------|-------------|-------------|
| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
| 5190 | 1.01 | 14.73 | -13.72 |
| 5230 | 1.68 | 14.73 | -13.05 |
| 5755 | 7.11 | 27.16 | -20.05 |
| 5795 | 7.09 | 27.16 | -20.07 |

| POWER DENSITY 802.11ac VHT80 MODE | | | |
|-----------------------------------|------------|-------------|-------------|
| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
| 5210 | 6.00 | 14.73 | -8.73 |
| 5775 | 10.36 | 27.16 | -16.80 |

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802.11a 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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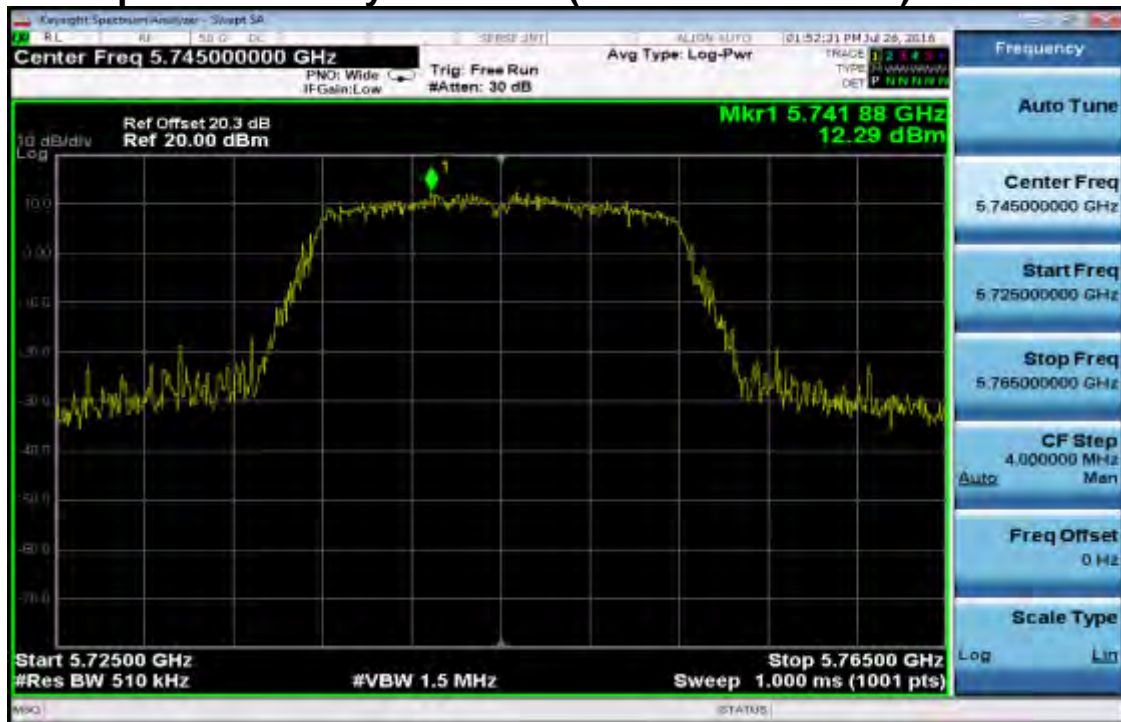
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802.11a 5725~5850 MHz

Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



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Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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CDD Mode:

802.11n HT20, 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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802.11n HT20, 5725~5850 MHz

Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



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Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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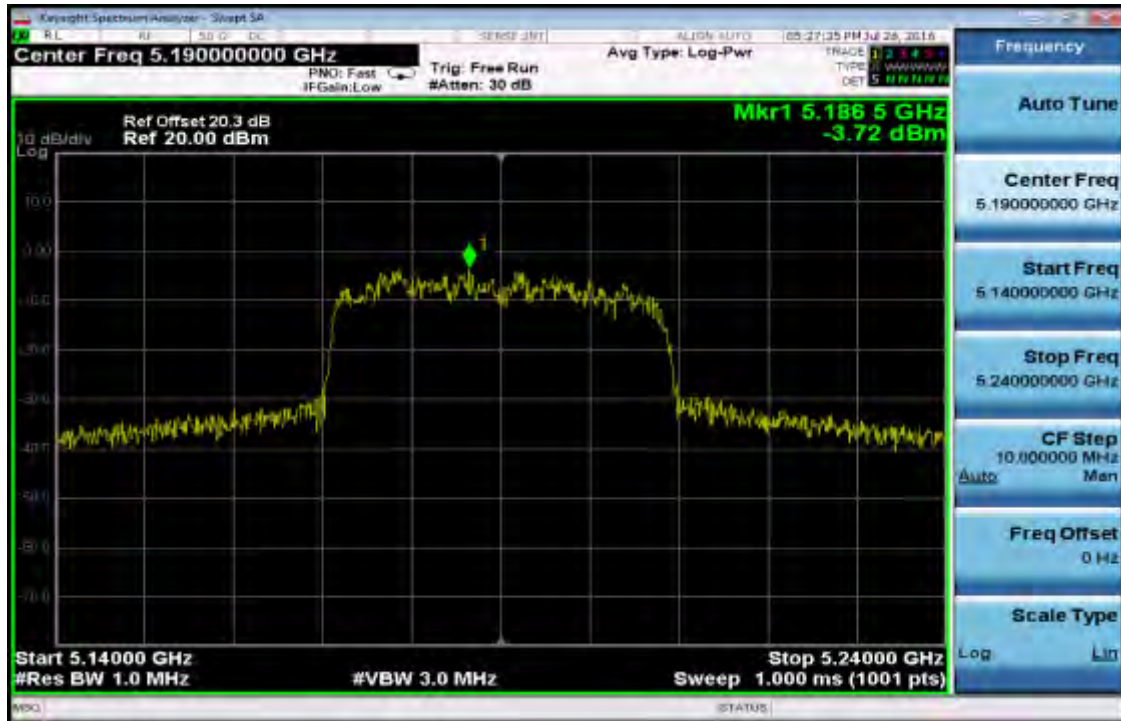
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Member of SGS Group

802.11n HT40, 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Low 5190 MHz)



Peak Power Spectral Density Data Plot (CH High 5230 MHz)



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802.11n HT40, 5725~5850 MHz

Peak Power Spectral Density Data Plot (CH Low 5755 MHz)



Peak Power Spectral Density Data Plot (CH High 5795 MHz)



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802.11ac VHT80, 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Mid 5210 MHz)



802.11ac VHT80, 5725~5850 MHz

Peak Power Spectral Density Data Plot (CH Mid 5775 MHz)



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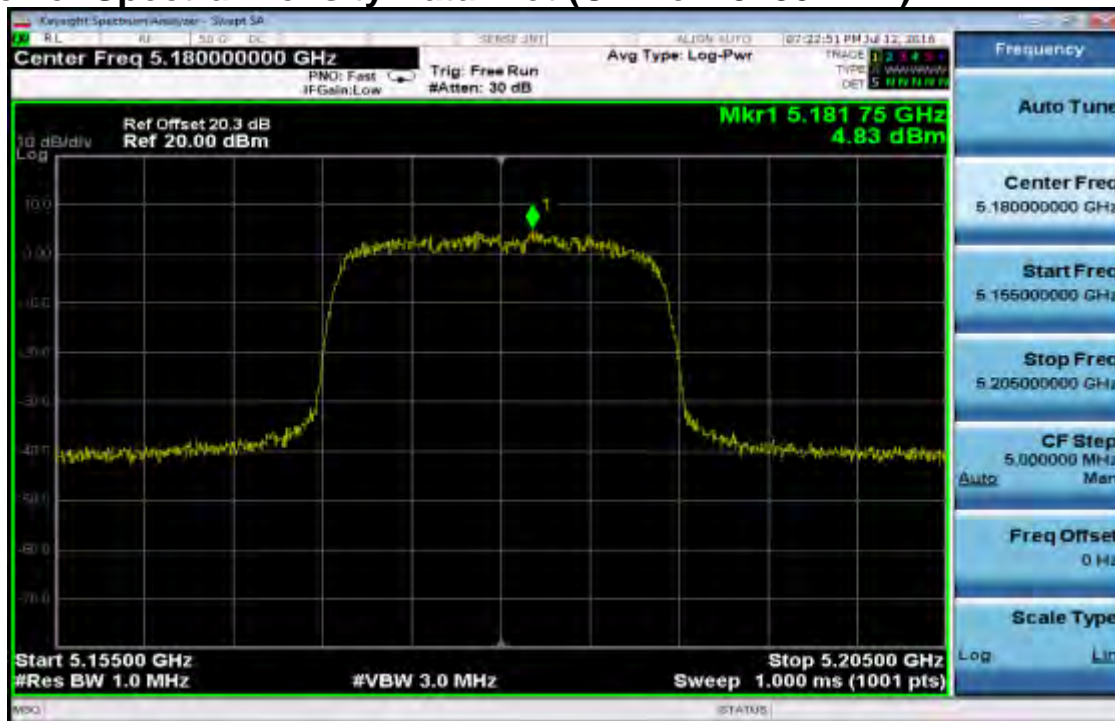
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Beam Forming Mode:

802.11n HT20, 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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802.11n HT20, 5725~5850 MHz

Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



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Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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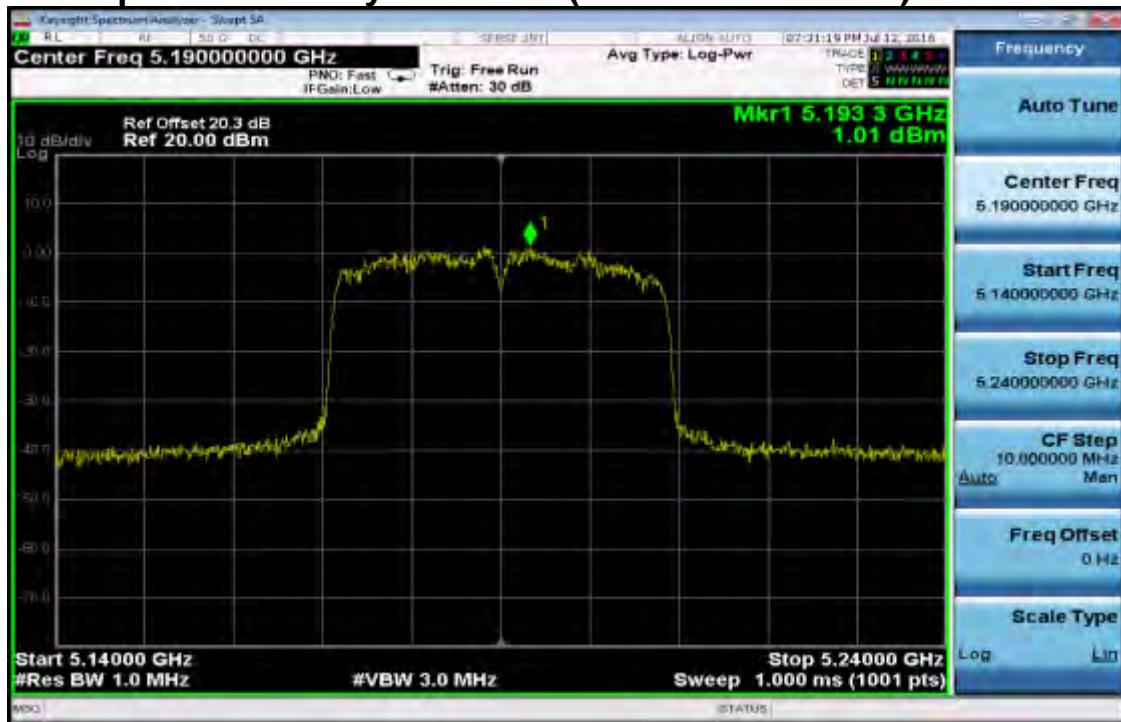
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802.11n HT40, 5150~5250 MHz Peak Power Spectral Density Data Plot (CH Low 5190 MHz)



Peak Power Spectral Density Data Plot (CH High 5230 MHz)



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802.11n HT40, 5725~5850 MHz

Peak Power Spectral Density Data Plot (CH Low 5755 MHz)



Peak Power Spectral Density Data Plot (CH High 5795 MHz)



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802.11ac VHT80, 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Mid 5210 MHz)



802.11ac VHT80, 5725~5850 MHz

Peak Power Spectral Density Data Plot (CH Mid 5775 MHz)



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11. UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

| APPLICABLE TO | LIMIT | |
|--|---|---|
| FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01 | FIELD STRENGTH AT 3m | |
| | PK: 74 (dBμV/m) | AV 54 (dBμV/m) |
| APPLICABLE TO | EIRP LIMIT | FIELD STRENGTH AT 3m |
| 15.407(b)(1) | PK: -27 (dBm/MHz) | PK: 68.3 (dBμV/m) |
| 15.407(b)(2) | | |
| 15.407(b)(3) | | |
| 15.407(b)(4) | PK: -27 (dBm/MHz) PK: -17 (dBm/MHz) | PK: 68.3 (dBμV/m) PK: 78.2 (dBμV/m) |
| 15.407(b)(4)(i) | PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4 | PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4 |
| *1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. | | |

$EIRP = (E \cdot d)^2 / 30$, where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts.

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Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

| Frequency (MHz) | Field strength (microvolts/meter) | Distance (meters) |
|-----------------|-----------------------------------|-------------------|
| 0.009-0.490 | 2400/F(KHz) | 300 |
| 0.490-1.705 | 24000/F(KHz) | 30 |
| 1.705-30 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBμV/m) = 20 log Emission level (dBμV/m)

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11.2 Measurement Equipment Used

| SGS SAC-III | | | | | |
|-------------------|-----------------------|--------------|---------------|------------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| EMI Test Receiver | R&S | ESCI7 | 100760 | 05/10/2016 | 05/09/2017 |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 01/29/2016 | 01/28/2017 |
| Loop Antenna | ETS.LINDGREN | 6502 | 148045 | 09/07/2015 | 09/06/2016 |
| Bilog Antenna | SCHWAZBECK | VULB9168 | 378 | 12/14/2015 | 12/13/2016 |
| Horn Antenna | Schwarzbeck | BBHA9120D | 1441 | 08/10/2015 | 08/09/2016 |
| Pre-Amplifier | Agilent | 8447D | 2944A07676 | 01/02/2016 | 01/01/2017 |
| Pre-Amplifier | EMC Instruments Corp. | EMC0126530 | 980038 | 01/02/2016 | 01/01/2017 |
| Turn Table | HD | DT420 | N/A | N.C.R | N.C.R |
| Antenna Tower | ChamPro | AM-BS-4500-B | 060776-ABS | N.C.R | N.C.R |
| Controller | ChamPro | EM1000 | 60776 | N.C.R | N.C.R |
| Low Loss Cable | Huber Suhner | 966_RX | 9 | 01/02/2016 | 01/01/2017 |
| 3m Site NSA | SGS | 966 chamber | N/A | 07/01/2016 | 06/30/2017 |
| Low Loss Cable | Huber Suhner | 966 TX | 1 | 01/02/2016 | 01/01/2017 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 184 | 12/12/2015 | 12/11/2016 |
| Pre-Amplifier | EMC Instruments Corp. | EMC184045 | 980135 | 01/02/2016 | 01/01/2017 |

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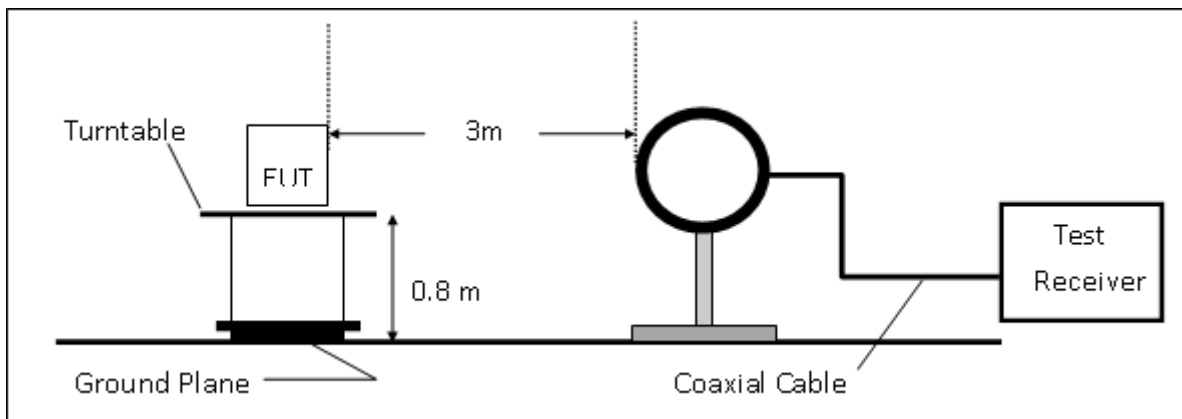
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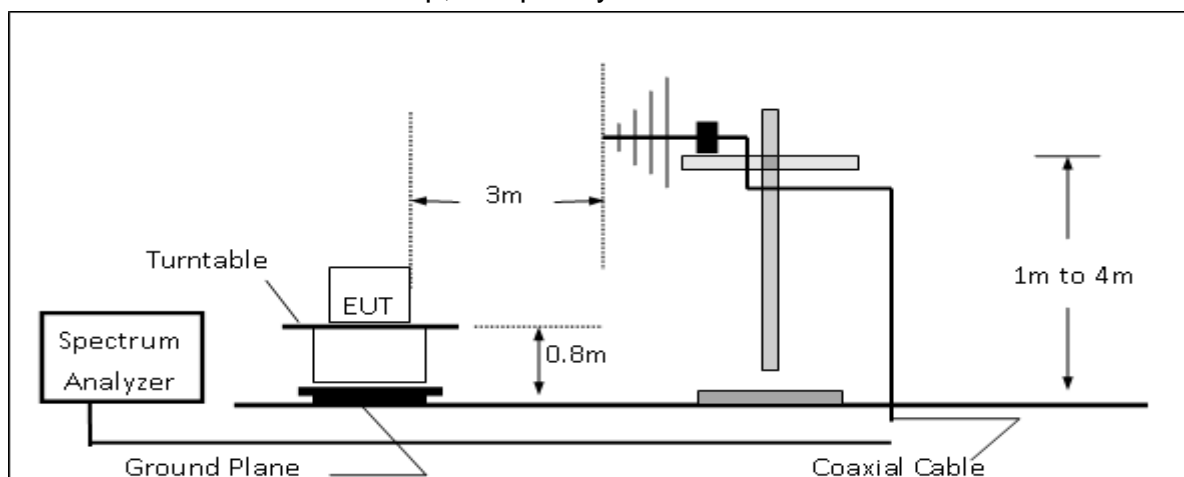
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11.3 Test SET-UP

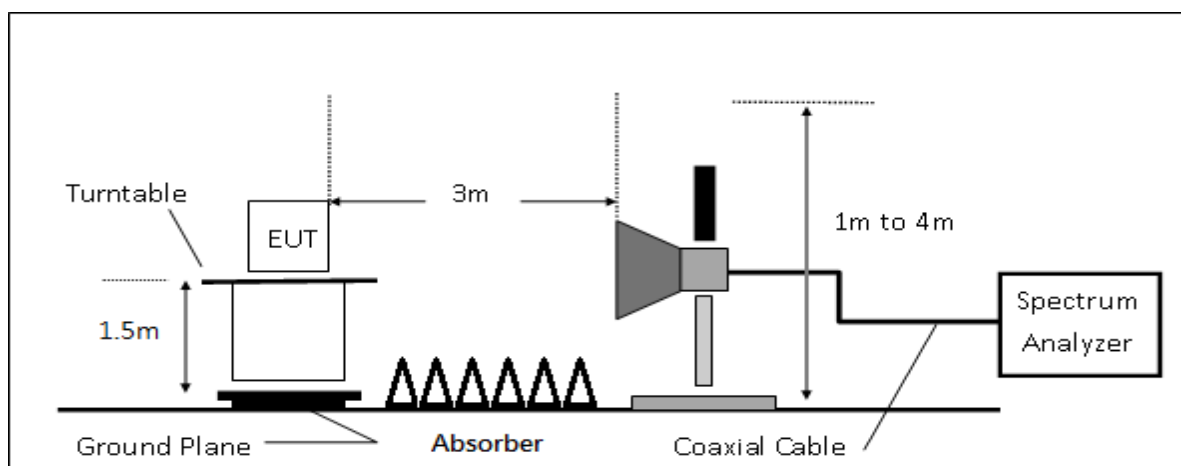
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-UP, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01.
3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

| | | |
|-------|------------------------|--|
| Where | FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| | RA = Reading Amplitude | AG = Amplifier Gain |
| | AF = Antenna Factor | |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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Note :

“F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

11.6 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

11.7 Measurement Result

Refer to attach tabular data sheets.

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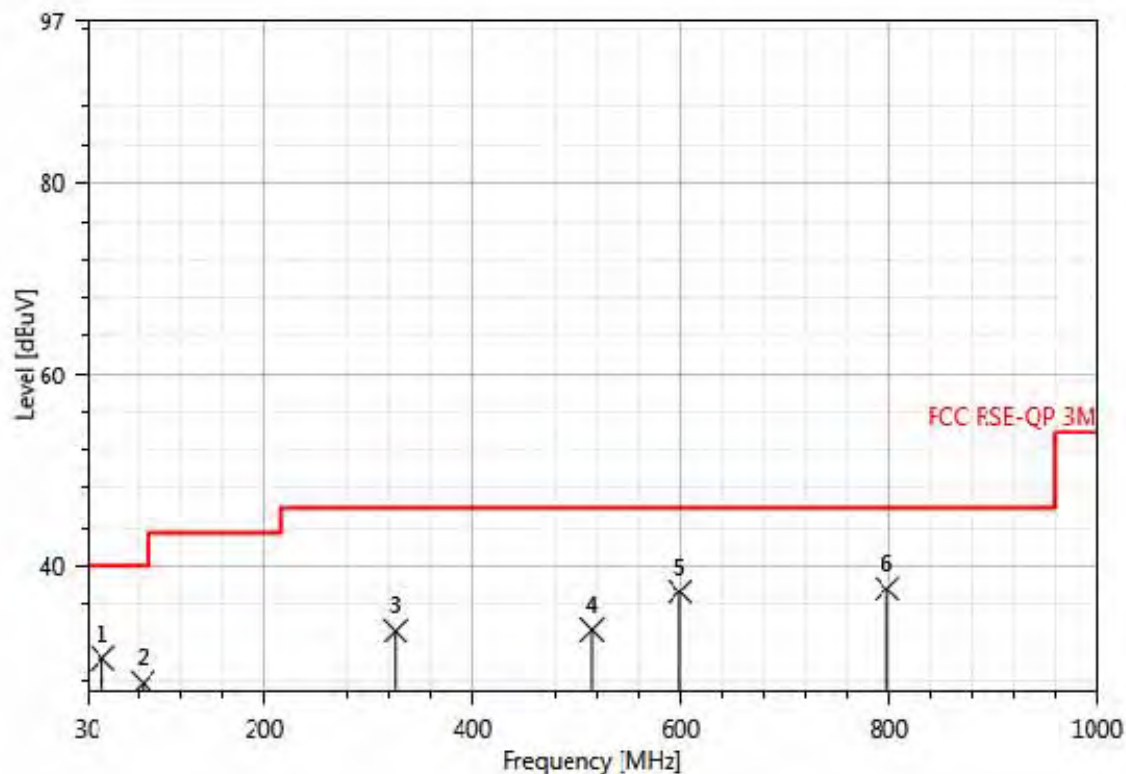
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Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

| | | | |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | 802.11aB1 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5220 MHz | Temp. / Humi. : | 21 deg_C / 61 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor | Actual | Spectrum | Factor | Limit | Margin |
|--------|---------|----------|---------------|----------|--------|-------|--------|
| MHz | F/H/E/S | Mode | Reading Level | FS | | @ 3m | |
| | | QP/AV/PK | dBμV/m | | | | |
| 44.55 | S | Peak | 30.26 | 38.34 | -8.09 | 40.00 | -9.74 |
| 83.35 | S | Peak | 27.74 | 40.51 | -12.77 | 40.00 | -12.26 |
| 325.85 | S | Peak | 33.18 | 38.61 | -5.43 | 46.00 | -12.82 |
| 515.00 | S | Peak | 33.32 | 35.26 | -1.94 | 46.00 | -12.68 |
| 599.39 | S | Peak | 37.28 | 37.56 | -0.28 | 46.00 | -8.72 |
| 798.24 | S | Peak | 37.57 | 34.46 | 3.11 | 46.00 | -8.43 |

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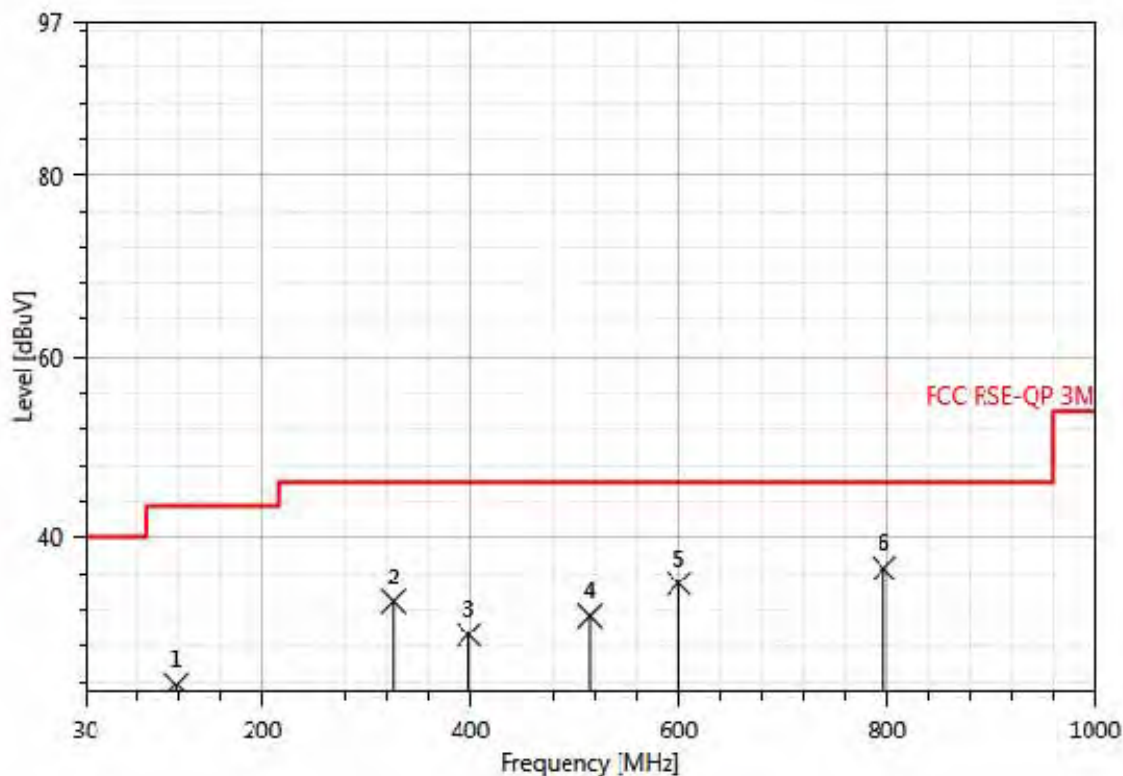
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Operation Mode : 802.11aB1
 Fundamental Frequency : 5220 MHz
 Operation Band : Tx CH MID
 EUT Pol. : E2 Plane

Test Date : 05/18/2016
 Temp. / Humi. : 21 deg_C / 61 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dBuV/m | Spectrum FS dBuV/m | Factor dB | Limit @ 3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|-----------------------------------|--------------------------|--------------|-------------------------|--------------|
| 117.30 | S | Peak | 23.75 | 34.42 | -10.67 | 43.50 | -19.75 |
| 325.85 | S | Peak | 32.91 | 38.35 | -5.43 | 46.00 | -13.09 |
| 398.60 | S | Peak | 29.24 | 33.21 | -3.97 | 46.00 | -16.76 |
| 515.00 | S | Peak | 31.35 | 33.29 | -1.94 | 46.00 | -14.65 |
| 600.36 | S | Peak | 34.92 | 35.05 | -0.13 | 46.00 | -11.08 |
| 797.27 | S | Peak | 36.58 | 33.50 | 3.08 | 46.00 | -9.42 |

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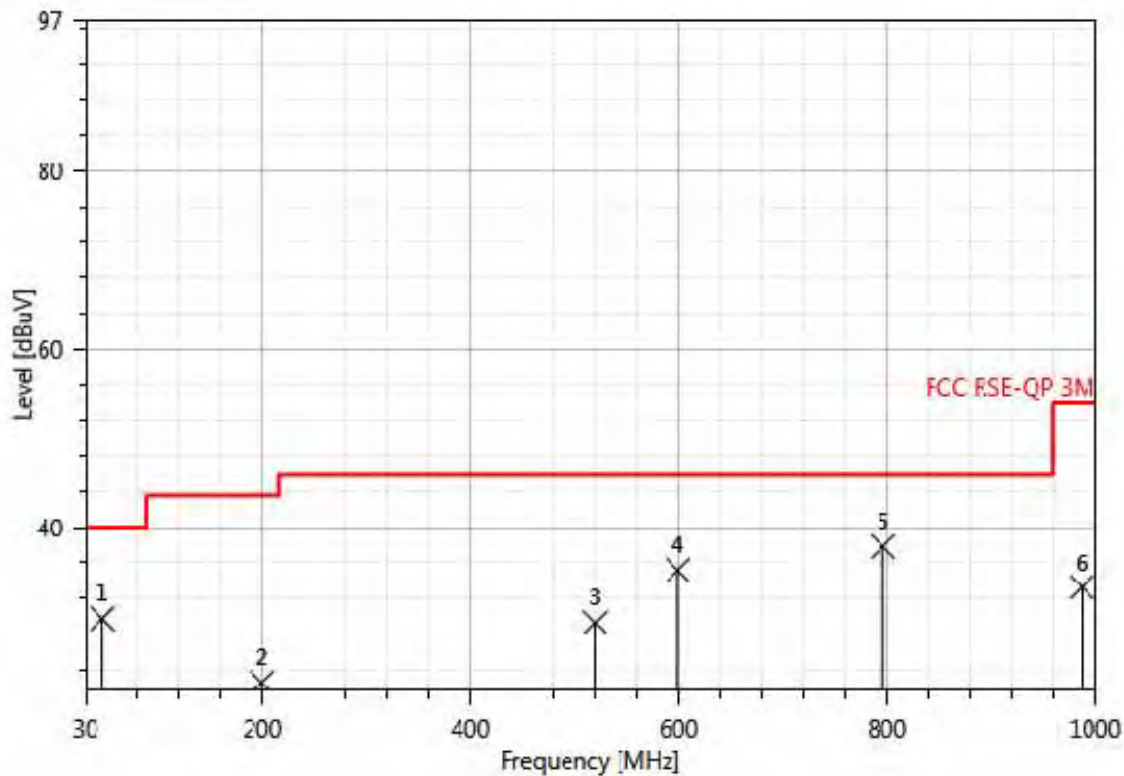
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802.11a, 5725~5850 MHz

| | | | |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | 802.11aB4 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5785 MHz | Temp. / Humi. : | 21 deg_C / 61 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dBuV/m | Spectrum FS dBuV/m | Factor dB | Limit @ 3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|-----------------------------------|--------------------------|--------------|-------------------------|--------------|
| 46.49 | S | Peak | 29.72 | 37.63 | -7.91 | 40.00 | -10.28 |
| 199.75 | S | Peak | 22.52 | 32.12 | -9.60 | 43.50 | -20.98 |
| 519.85 | S | Peak | 29.27 | 30.89 | -1.62 | 46.00 | -16.73 |
| 599.39 | S | Peak | 35.16 | 35.44 | -0.28 | 46.00 | -10.84 |
| 796.30 | S | Peak | 37.80 | 34.79 | 3.01 | 46.00 | -8.20 |
| 987.39 | S | Peak | 33.24 | 27.20 | 6.04 | 54.00 | -20.76 |

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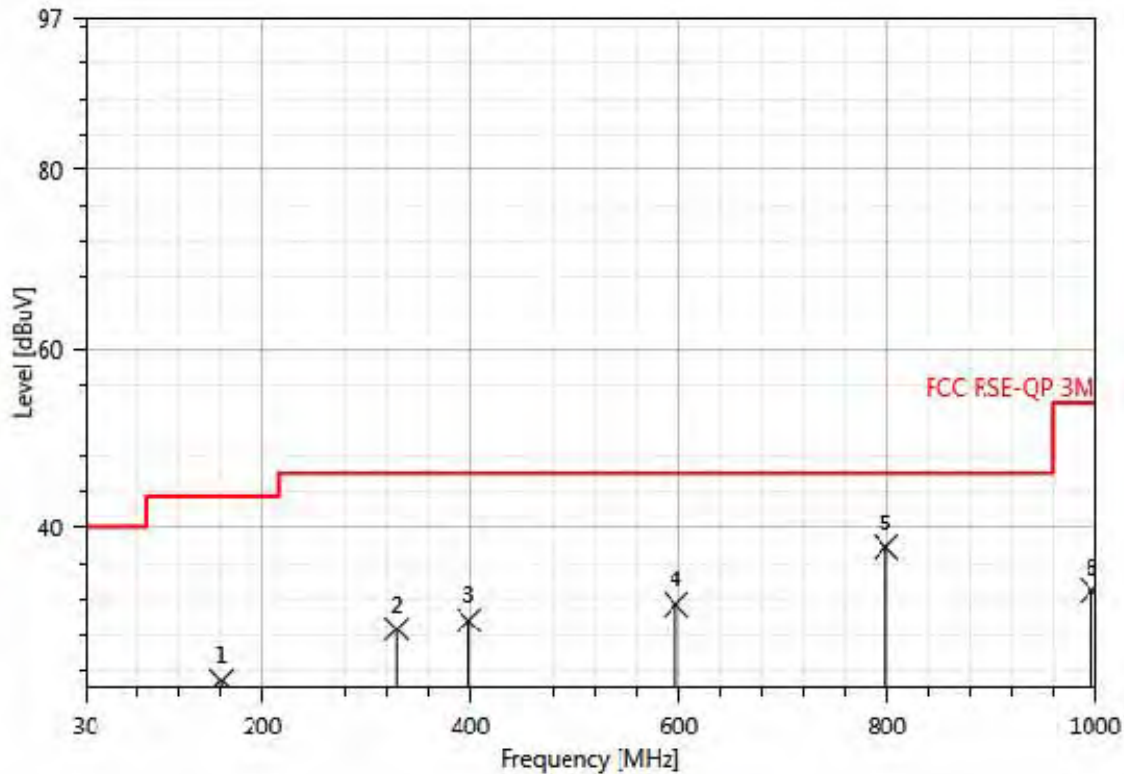
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Operation Mode : 802.11aB4
Fundamental Frequency : 5785 MHz
Operation Band : Tx CH MID
EUT Pol. : E2 Plane

Test Date : 05/18/2016
Temp. / Humi. : 21 deg_C / 61 RH
Test Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dBuV/m | Spectrum FS dBuV/m | Factor dB | Limit @ 3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|-----------------------------------|--------------------------|--------------|-------------------------|--------------|
| 160.95 | S | Peak | 22.92 | 30.35 | -7.44 | 43.50 | -20.58 |
| 328.76 | S | Peak | 28.66 | 34.19 | -5.53 | 46.00 | -17.34 |
| 398.60 | S | Peak | 29.63 | 33.60 | -3.97 | 46.00 | -16.37 |
| 597.45 | S | Peak | 31.40 | 31.59 | -0.19 | 46.00 | -14.60 |
| 799.21 | S | Peak | 37.82 | 34.68 | 3.14 | 46.00 | -8.18 |
| 997.09 | S | Peak | 32.91 | 26.99 | 5.92 | 54.00 | -21.09 |

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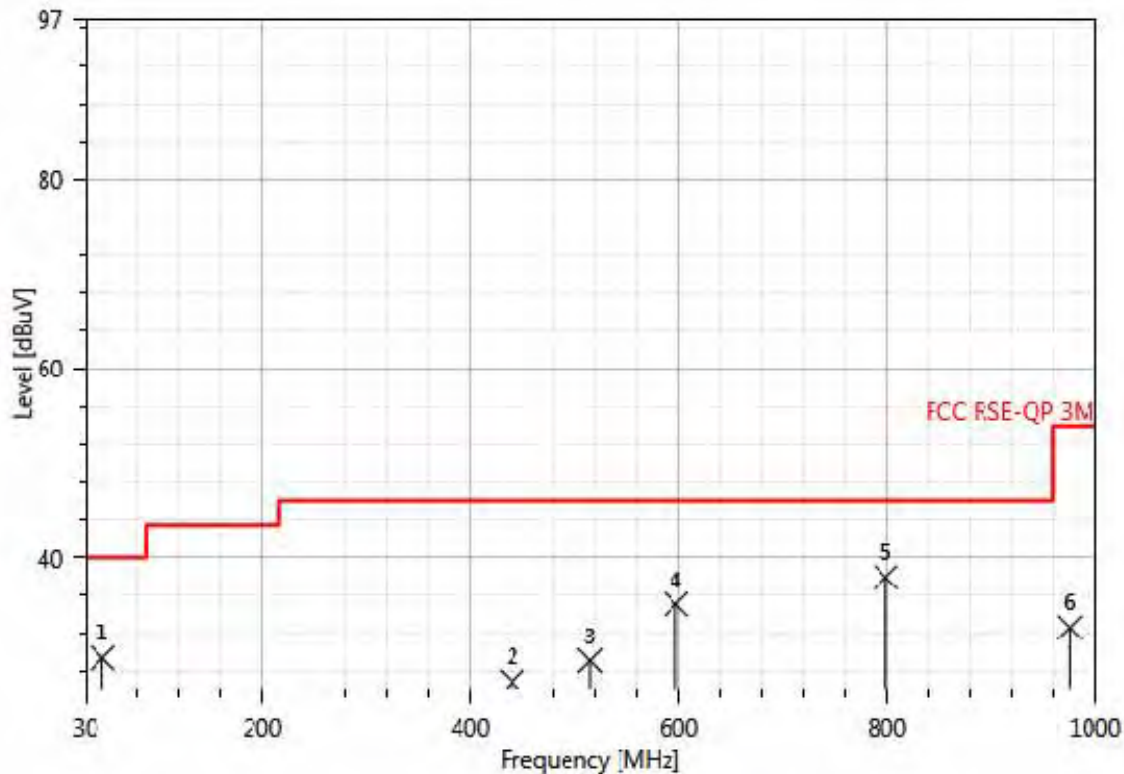
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802.11ac VHT80, 5150~5250 MHz

| | | | |
|-------------------------|--------------|----------------------------|------------------|
| Operation Mode : | 802.11ac80B1 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5210 MHz | Temp. / Humi. : | 21 deg_C / 61 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dBμV/m | Spectrum FS dBμV/m | Factor dB | Limit @ 3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|-----------------------------------|--------------------------|--------------|-------------------------|--------------|
| 46.49 | S | Peak | 29.37 | 37.28 | -7.91 | 40.00 | -10.63 |
| 440.31 | S | Peak | 26.86 | 30.17 | -3.30 | 46.00 | -19.14 |
| 515.00 | S | Peak | 29.09 | 31.04 | -1.94 | 46.00 | -16.91 |
| 597.45 | S | Peak | 35.06 | 35.25 | -0.19 | 46.00 | -10.94 |
| 799.21 | S | Peak | 37.93 | 34.79 | 3.14 | 46.00 | -8.07 |
| 975.75 | S | Peak | 32.60 | 26.39 | 6.21 | 54.00 | -21.40 |

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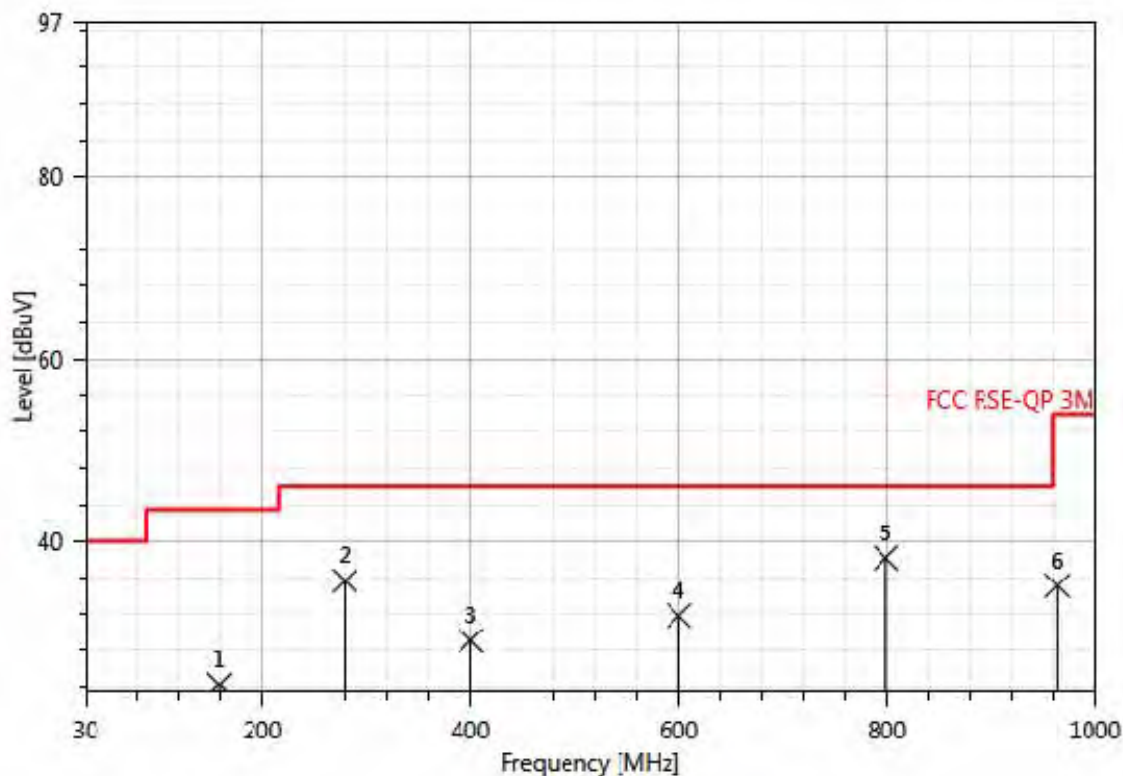
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Operation Mode : 802.11ac80B1
 Fundamental Frequency : 5210 MHz
 Operation Band : Tx CH MID
 EUT Pol. : E2 Plane

Test Date : 05/18/2016
 Temp. / Humi. : 21 deg_C / 61 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dBuV/m | Spectrum FS dBuV/m | Factor dB | Limit @ 3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|-----------------------------------|--------------------------|--------------|-------------------------|--------------|
| 159.01 | S | Peak | 24.32 | 31.70 | -7.38 | 43.50 | -19.18 |
| 279.29 | S | Peak | 35.69 | 42.11 | -6.42 | 46.00 | -10.31 |
| 400.54 | S | Peak | 29.13 | 33.06 | -3.94 | 46.00 | -16.87 |
| 600.36 | S | Peak | 31.88 | 32.02 | -0.13 | 46.00 | -14.12 |
| 799.21 | S | Peak | 38.20 | 35.06 | 3.14 | 46.00 | -7.80 |
| 964.11 | S | Peak | 35.15 | 29.13 | 6.02 | 54.00 | -18.85 |

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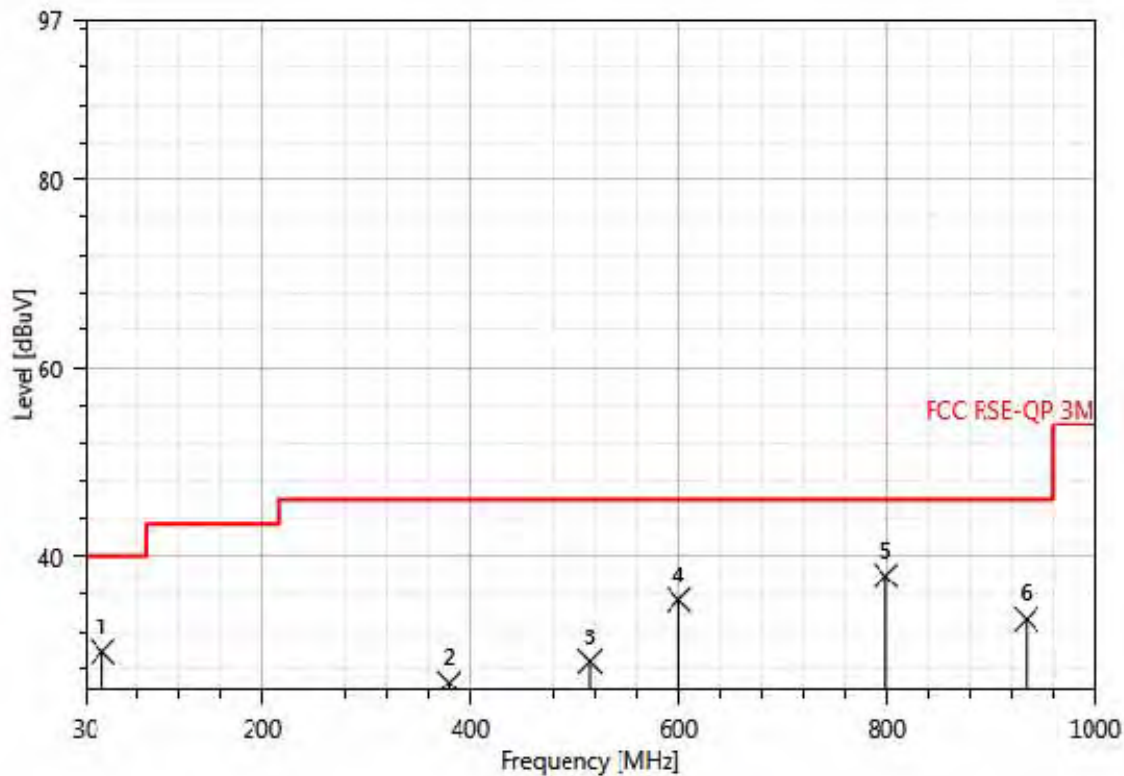
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802.11ac VHT80, 5725~5850 MHz

| | | | |
|-------------------------|--------------|----------------------------|------------------|
| Operation Mode : | 802.11ac80B4 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5775 MHz | Temp. / Humi. : | 21 deg_C / 61 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|--------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBuV/m | dBuV/m | dB | dBuV/m | dB |
| 46.49 | S | Peak | 29.81 | 37.72 | -7.91 | 40.00 | -10.19 |
| 379.20 | S | Peak | 26.57 | 30.98 | -4.41 | 46.00 | -19.43 |
| 515.00 | S | Peak | 28.81 | 30.75 | -1.94 | 46.00 | -17.19 |
| 600.36 | S | Peak | 35.34 | 35.48 | -0.13 | 46.00 | -10.66 |
| 799.21 | S | Peak | 37.91 | 34.77 | 3.14 | 46.00 | -8.09 |
| 934.04 | S | Peak | 33.34 | 28.11 | 5.23 | 46.00 | -12.66 |

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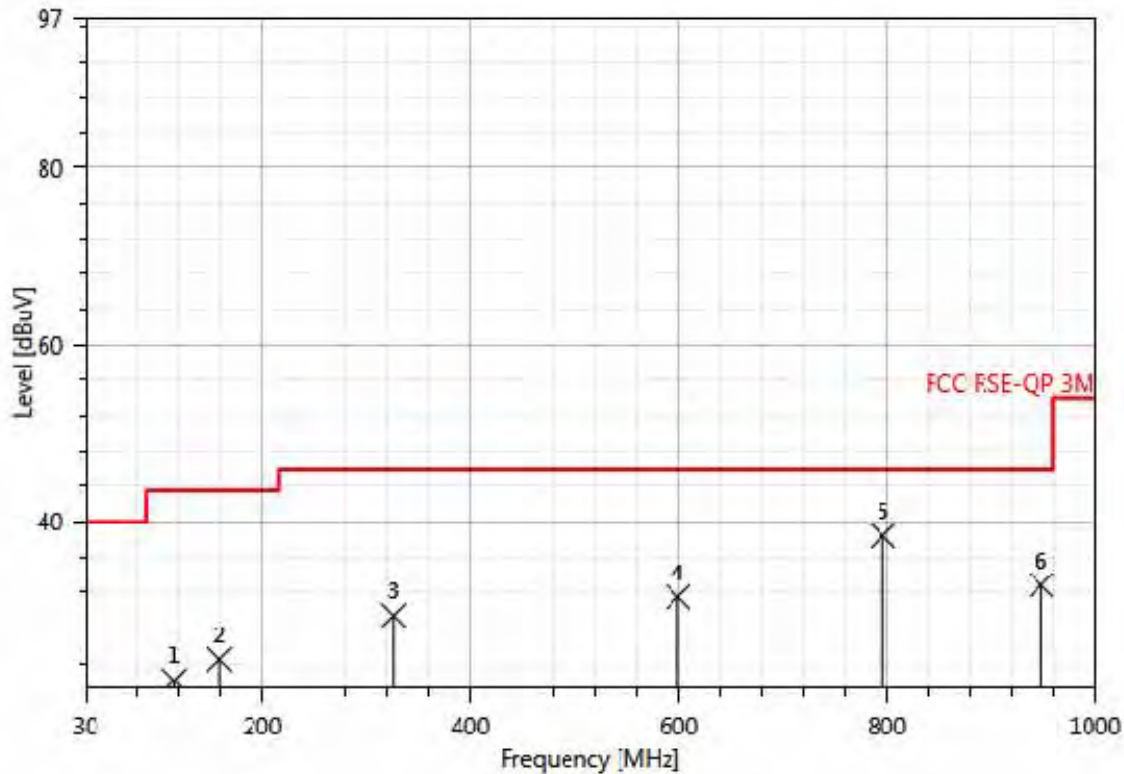
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Operation Mode : 802.11ac80B4 Test Date : 05/18/2016
Fundamental Frequency : 5775 MHz Temp. / Humi. : 21 deg_C / 61 RH
Operation Band : Tx CH MID Test Engineer : Kane
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dBuV/m | Spectrum FS dBuV/m | Factor dB | Limit @ 3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|-----------------------------------|--------------------------|--------------|-------------------------|--------------|
| 115.36 | S | Peak | 22.04 | 32.83 | -10.79 | 43.50 | -21.46 |
| 159.01 | S | Peak | 24.42 | 31.80 | -7.38 | 43.50 | -19.08 |
| 325.85 | S | Peak | 29.38 | 34.82 | -5.43 | 46.00 | -16.62 |
| 599.39 | S | Peak | 31.48 | 31.75 | -0.28 | 46.00 | -14.52 |
| 796.30 | S | Peak | 38.36 | 35.35 | 3.01 | 46.00 | -7.64 |
| 948.59 | S | Peak | 32.83 | 27.45 | 5.37 | 46.00 | -13.17 |

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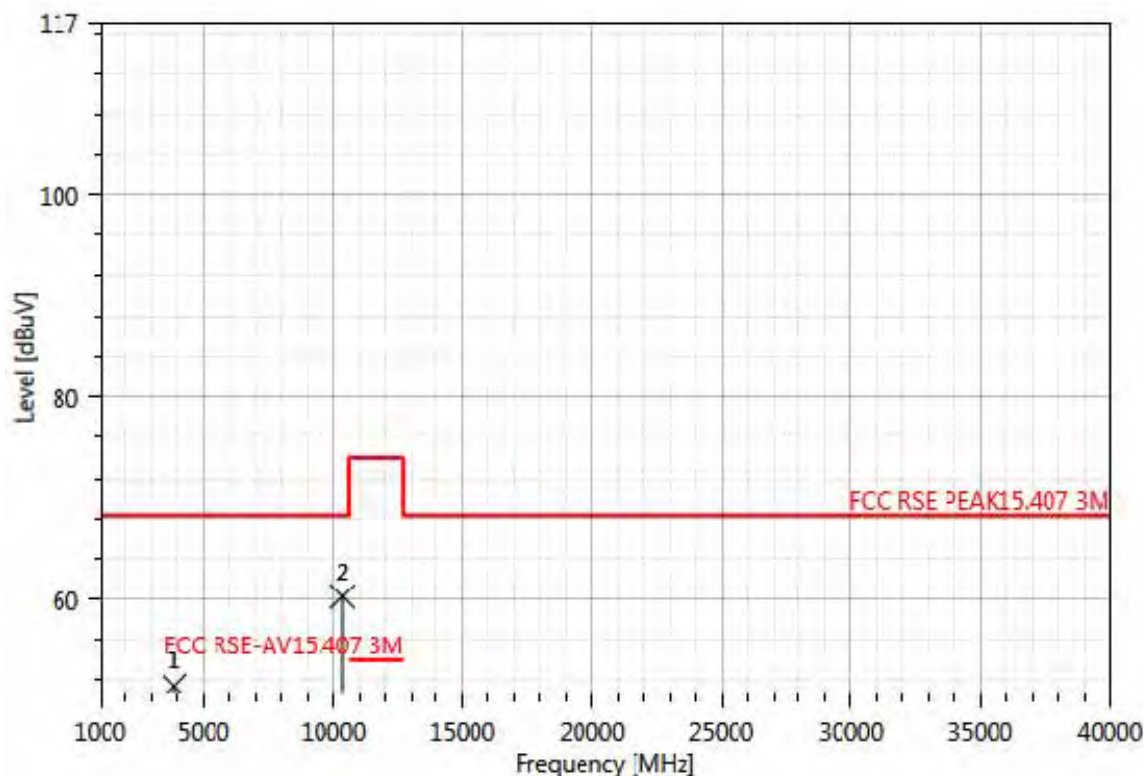
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Above 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz

| | | | |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | 802.11aB1 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5180 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dBμV/m | Spectrum FS dBμV/m | Factor dB | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|-----------------------------------|--------------------------|--------------|------------------------|--------------|
| 3870.00 | S | Peak | 51.46 | 49.17 | 2.30 | 68.30 | -16.84 |
| 10360.00 | H | Peak | 60.29 | 41.99 | 18.29 | 68.30 | -8.01 |

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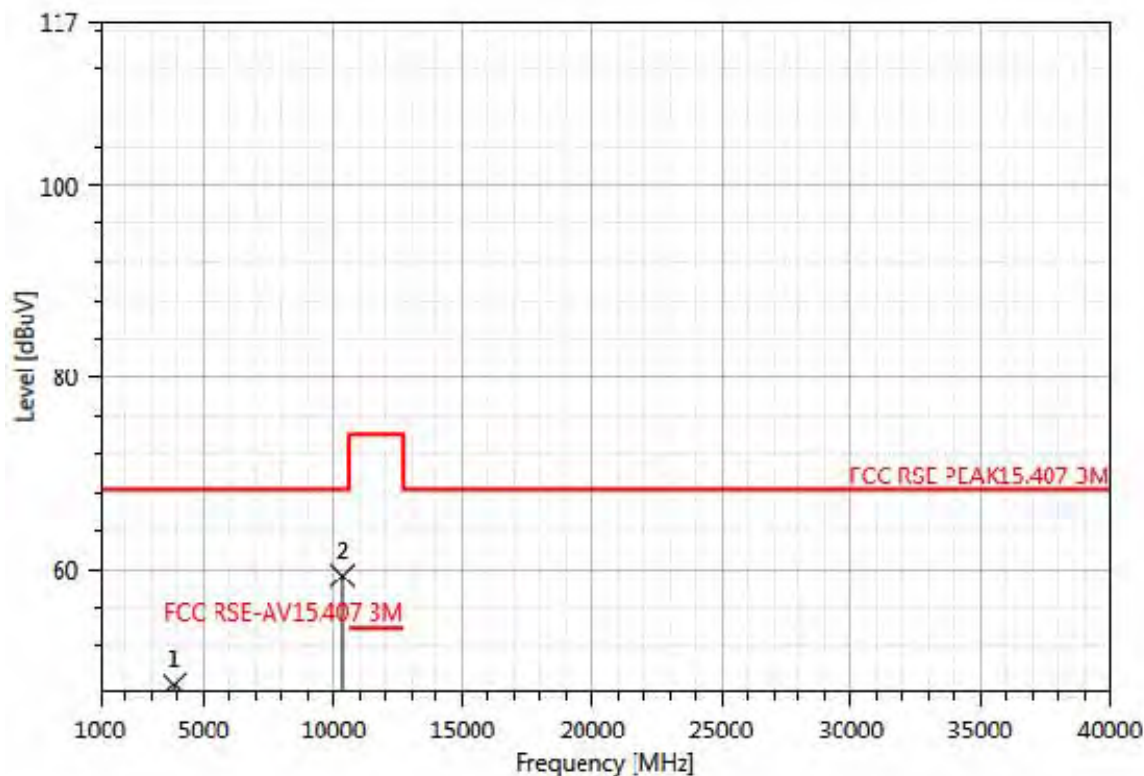
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| | | | |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | 802.11aB1 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5180 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 48.06 | 45.76 | 2.30 | 68.30 | -20.24 |
| 10360.00 | H | Peak | 59.37 | 41.07 | 18.29 | 68.30 | -8.93 |

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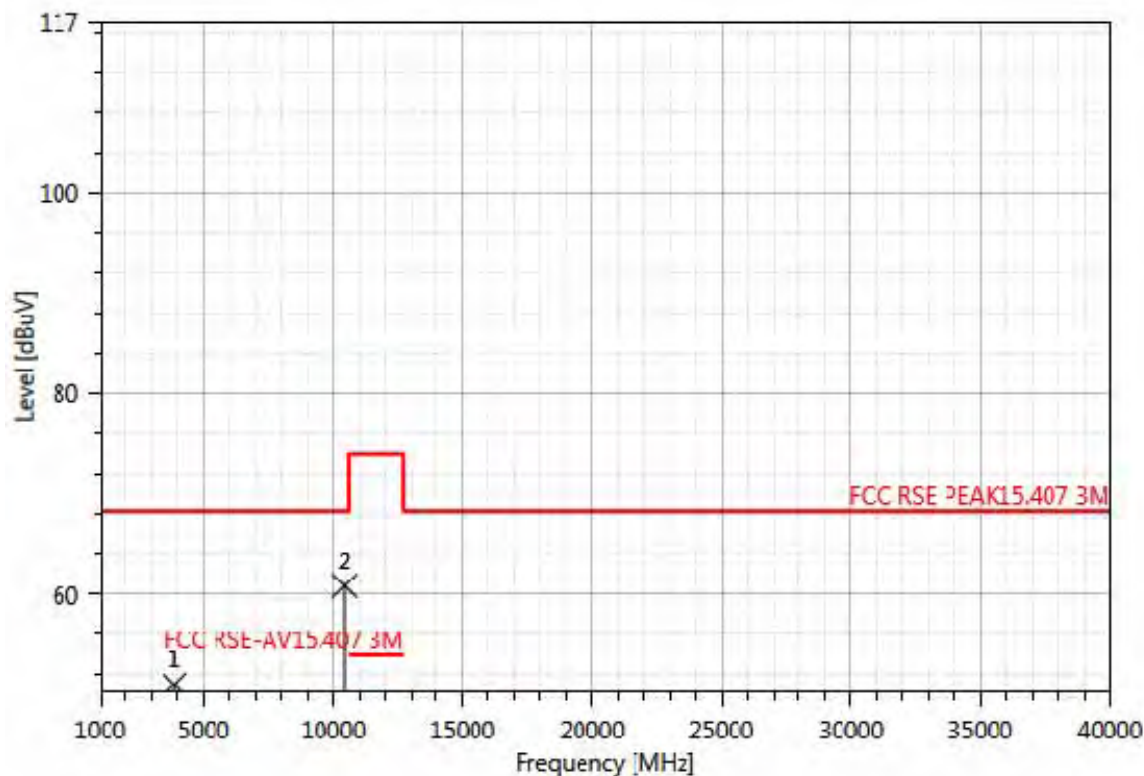
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|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | 802.11aB1 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5220 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 51.04 | 48.74 | 2.30 | 68.30 | -17.26 |
| 10440.00 | H | Peak | 60.85 | 42.16 | 18.68 | 68.30 | -7.45 |

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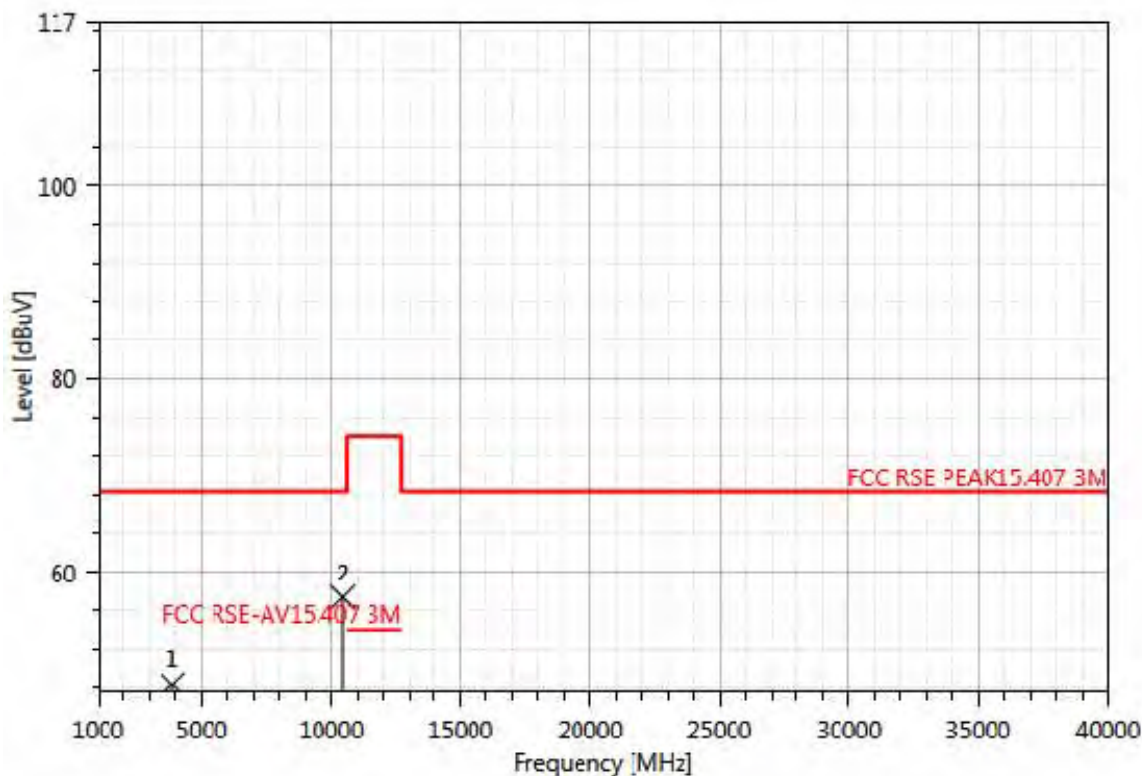
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| | | | |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | 802.11aB1 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5220 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor | Actual | Spectrum | Factor | Limit | Margin |
|----------|---------|---------|---------------|----------|--------|-------|--------|
| MHz | F/H/E/S | Mode | Reading Level | FS | dB | @ 3m | dB |
| 3870.00 | S | Peak | 48.35 | 46.06 | 2.30 | 68.30 | -19.95 |
| 10440.00 | H | Peak | 57.39 | 38.71 | 18.68 | 68.30 | -10.91 |

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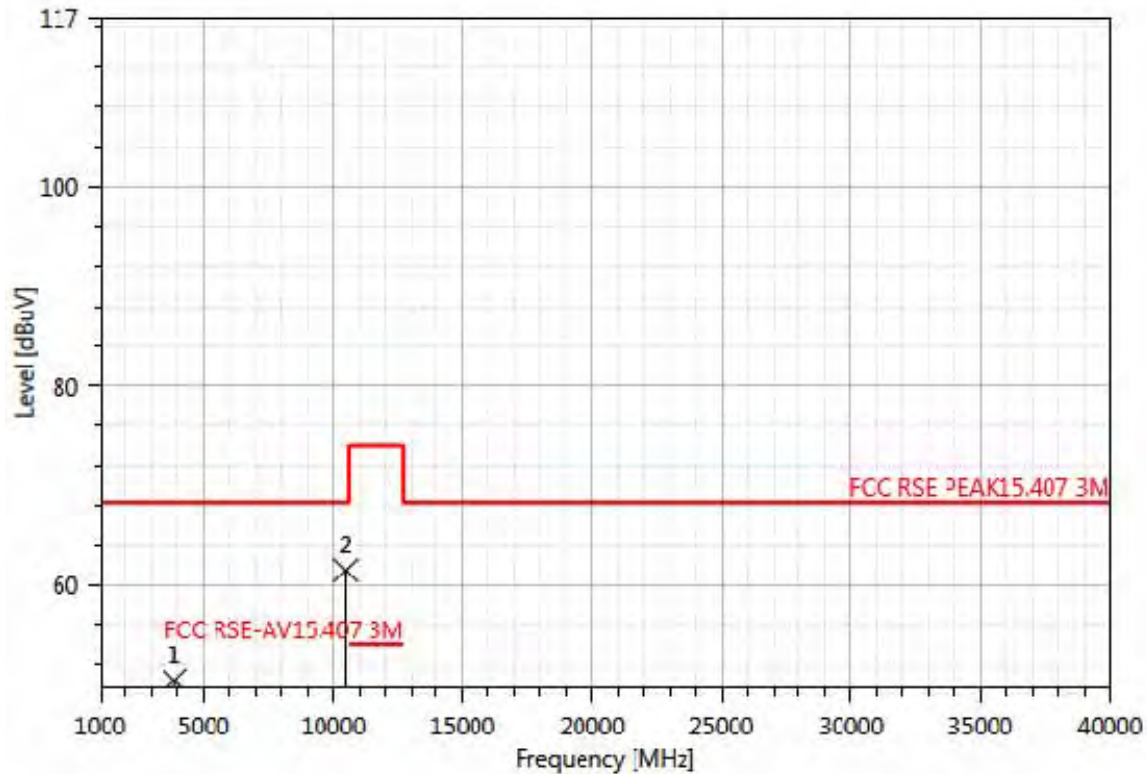
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|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | 802.11aB1 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5240 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 50.41 | 48.11 | 2.30 | 68.30 | -17.89 |
| 10480.00 | H | Peak | 61.48 | 43.19 | 18.29 | 68.30 | -6.82 |

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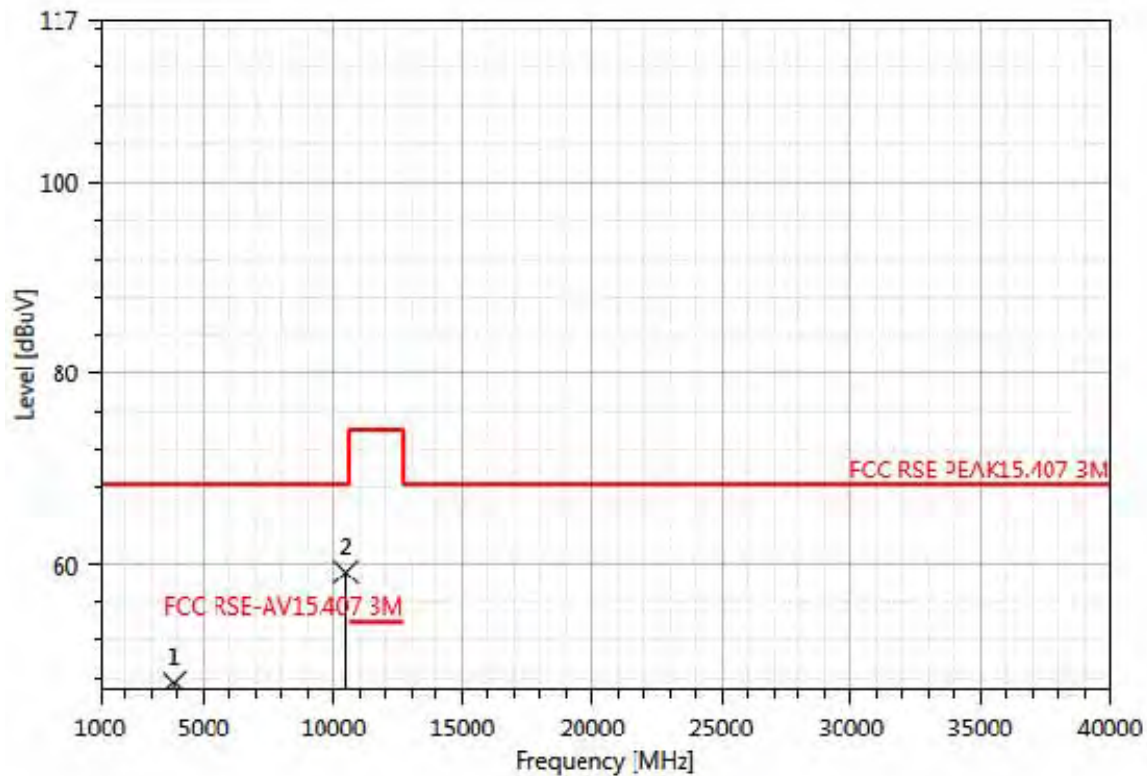
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | 802.11aB1 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5240 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 47.61 | 45.32 | 2.30 | 68.30 | -20.69 |
| 10480.00 | H | Peak | 59.16 | 40.87 | 18.29 | 68.30 | -9.14 |

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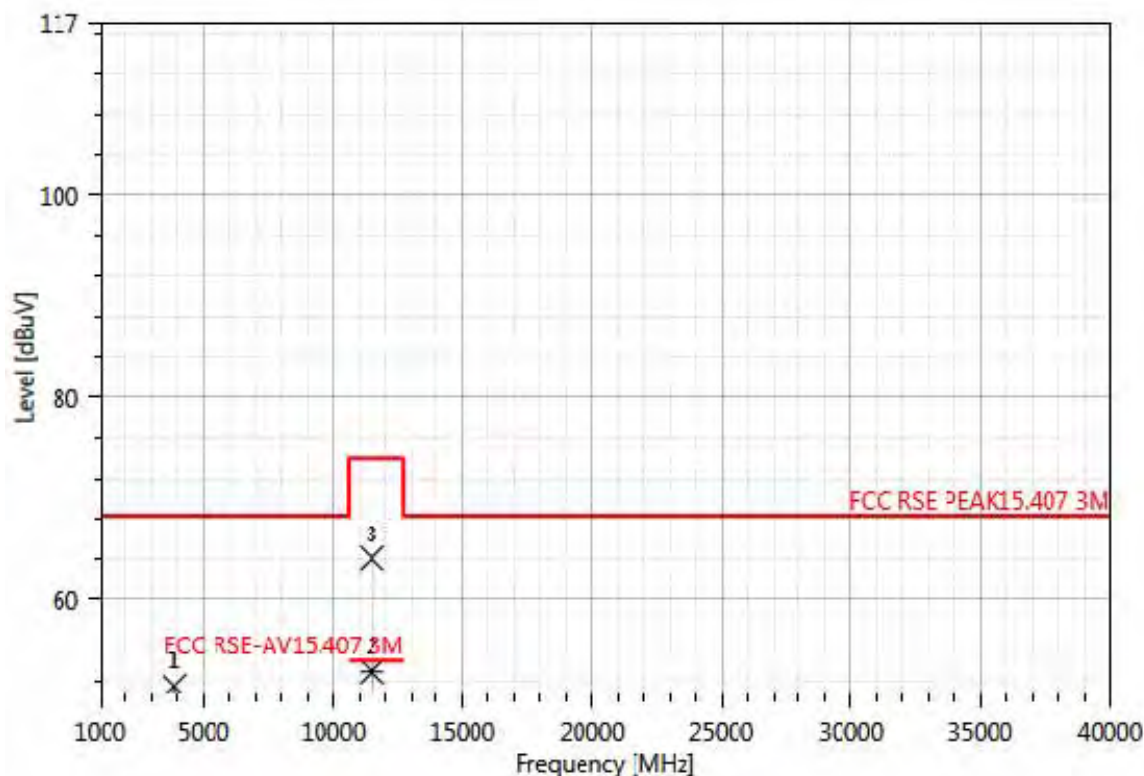
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

| | | | |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | 802.11aB4 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5745 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 51.53 | 49.23 | 2.30 | 68.30 | -16.77 |
| 11490.00 | H | Average | 52.92 | 32.50 | 20.42 | 54.00 | -1.08 |
| 11490.00 | H | Peak | 64.11 | 43.69 | 20.42 | 74.00 | -9.89 |

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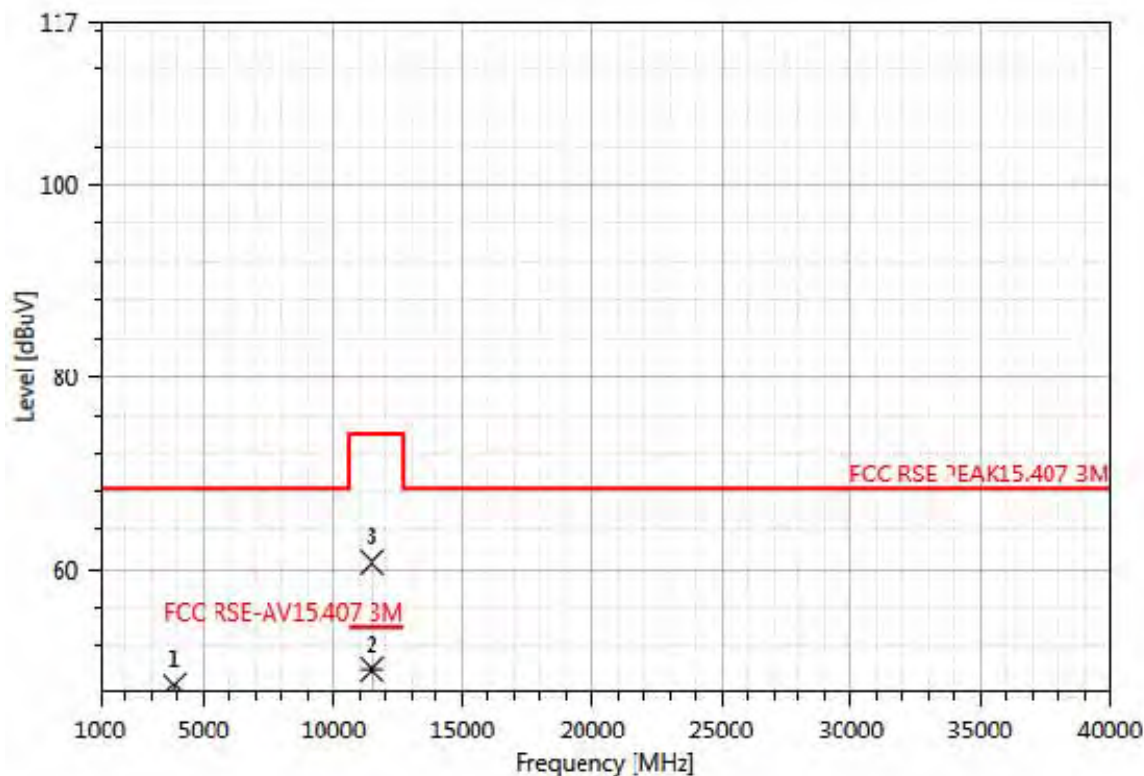
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Operation Mode : 802.11aB4
 Fundamental Frequency : 5745 MHz
 Operation Band : Tx CH LOW
 EUT Pol. : E2 Plane

Test Date : 05/18/2016
 Temp. / Humi. : 21 deg_C / 62 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 47.96 | 45.67 | 2.30 | 68.30 | -20.34 |
| 11490.00 | H | Average | 49.56 | 29.14 | 20.42 | 54.00 | -4.44 |
| 11490.00 | H | Peak | 60.71 | 40.29 | 20.42 | 74.00 | -13.29 |

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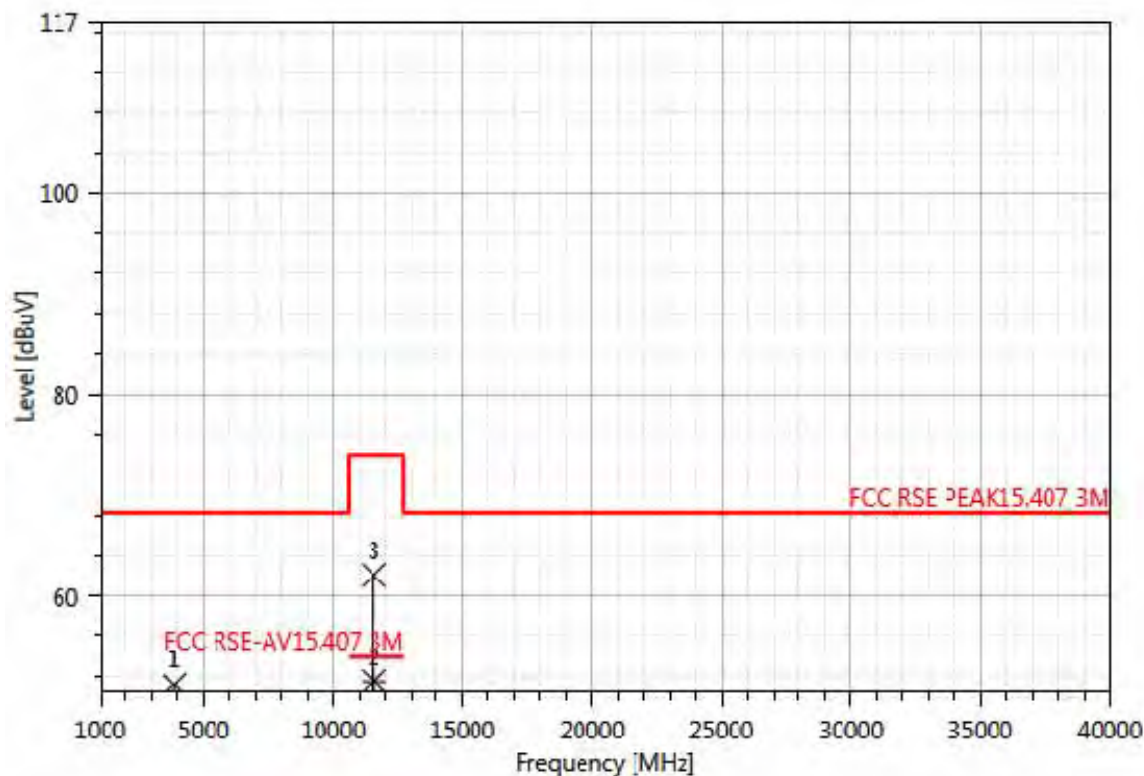
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Operation Mode : 802.11aB4
 Fundamental Frequency : 5785 MHz
 Operation Band : Tx CH MID
 EUT Pol. : E2 Plane

Test Date : 05/18/2016
 Temp. / Humi. : 21 deg_C / 62 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : VERTICAL



| Freq. | Note | Detector Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|---------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 51.22 | 48.92 | 2.30 | 68.30 | -17.08 |
| 11570.00 | H | Average | 51.55 | 30.96 | 20.59 | 54.00 | -2.45 |
| 11570.00 | H | Peak | 62.06 | 41.48 | 20.59 | 74.00 | -11.94 |

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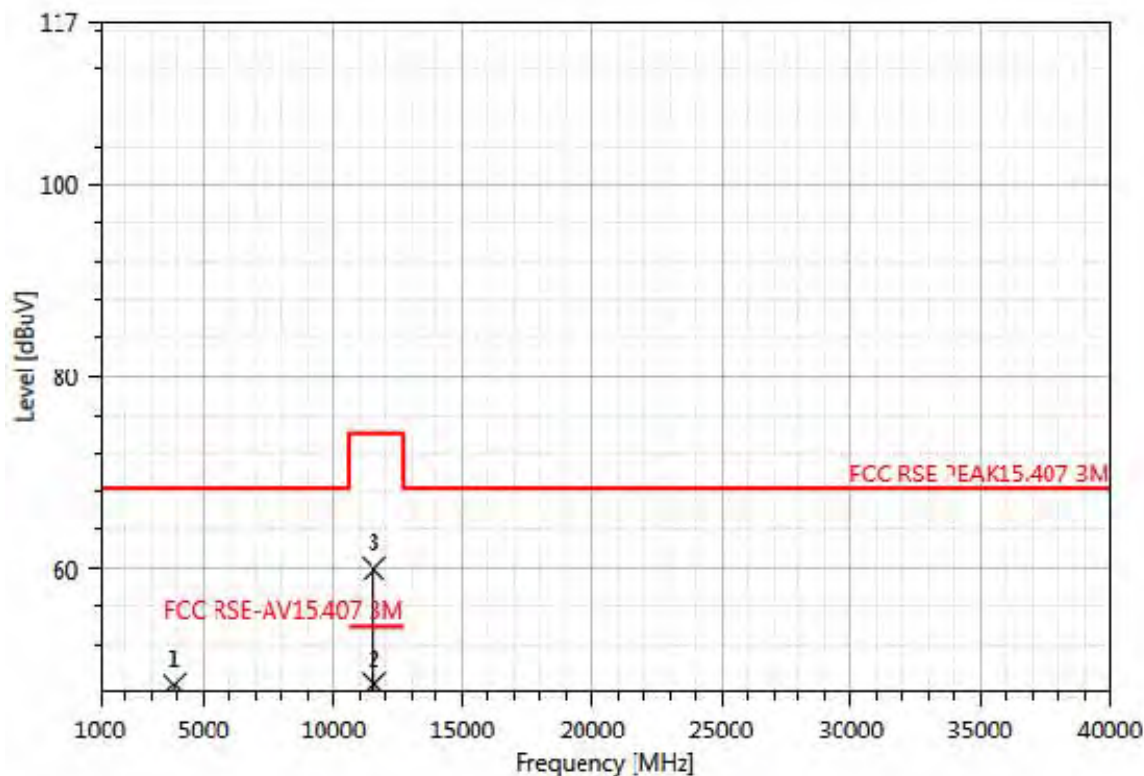
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Operation Mode : 802.11aB4
Fundamental Frequency : 5785 MHz
Operation Band : Tx CH MID
EUT Pol. : E2 Plane

Test Date : 05/18/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



| Freq. | Note | Detector Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|---------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 47.90 | 45.60 | 2.30 | 68.30 | -20.40 |
| 11570.00 | H | Average | 47.94 | 27.35 | 20.59 | 54.00 | -6.06 |
| 11570.00 | H | Peak | 59.98 | 39.39 | 20.59 | 74.00 | -14.02 |

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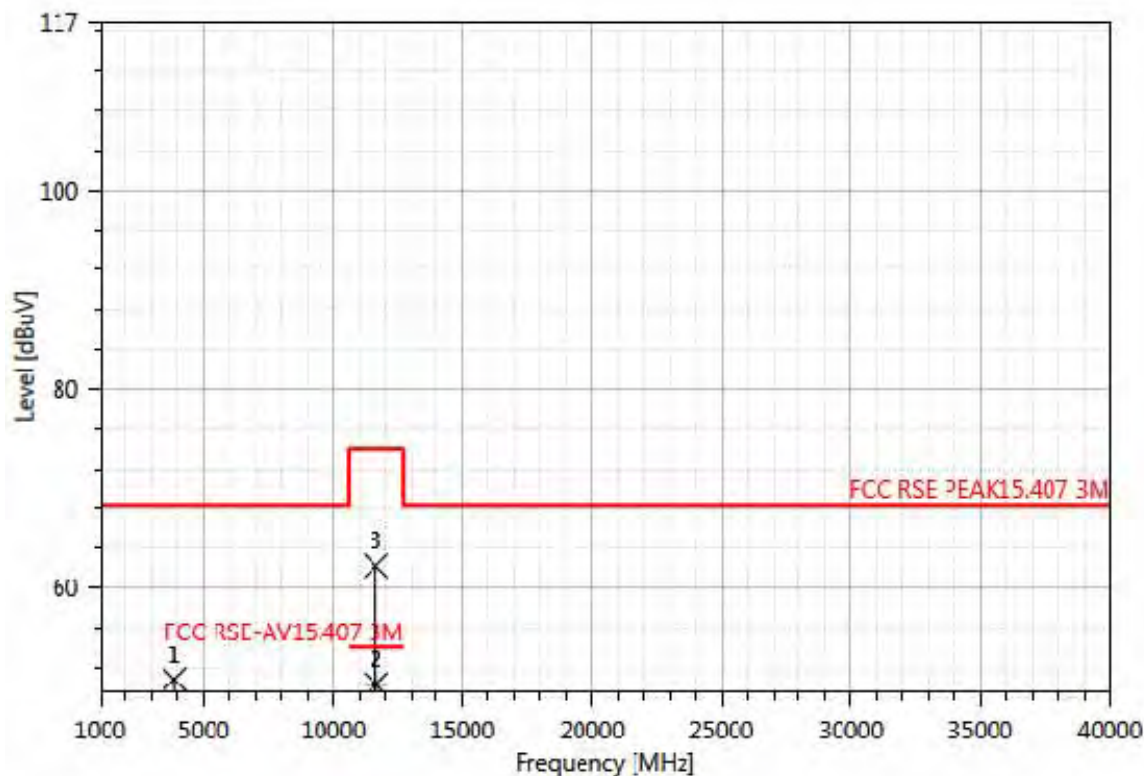
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|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | 802.11aB4 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5825 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 50.80 | 48.50 | 2.30 | 68.30 | -17.50 |
| 11650.00 | H | Average | 50.28 | 29.85 | 20.43 | 54.00 | -3.72 |
| 11650.00 | H | Peak | 62.25 | 41.81 | 20.43 | 74.00 | -11.75 |

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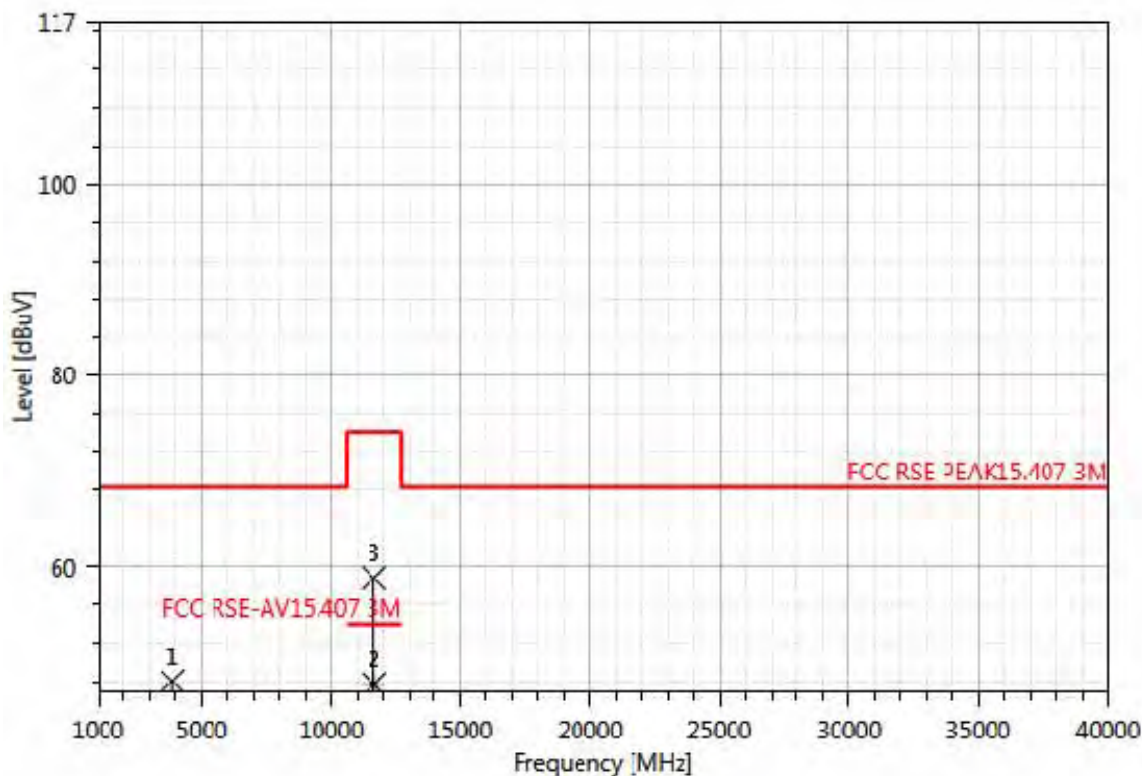
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | 802.11aB4 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5825 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 48.02 | 45.72 | 2.30 | 68.30 | -20.28 |
| 11650.00 | H | Average | 47.67 | 27.24 | 20.43 | 54.00 | -6.33 |
| 11650.00 | H | Peak | 58.81 | 38.38 | 20.43 | 74.00 | -15.19 |

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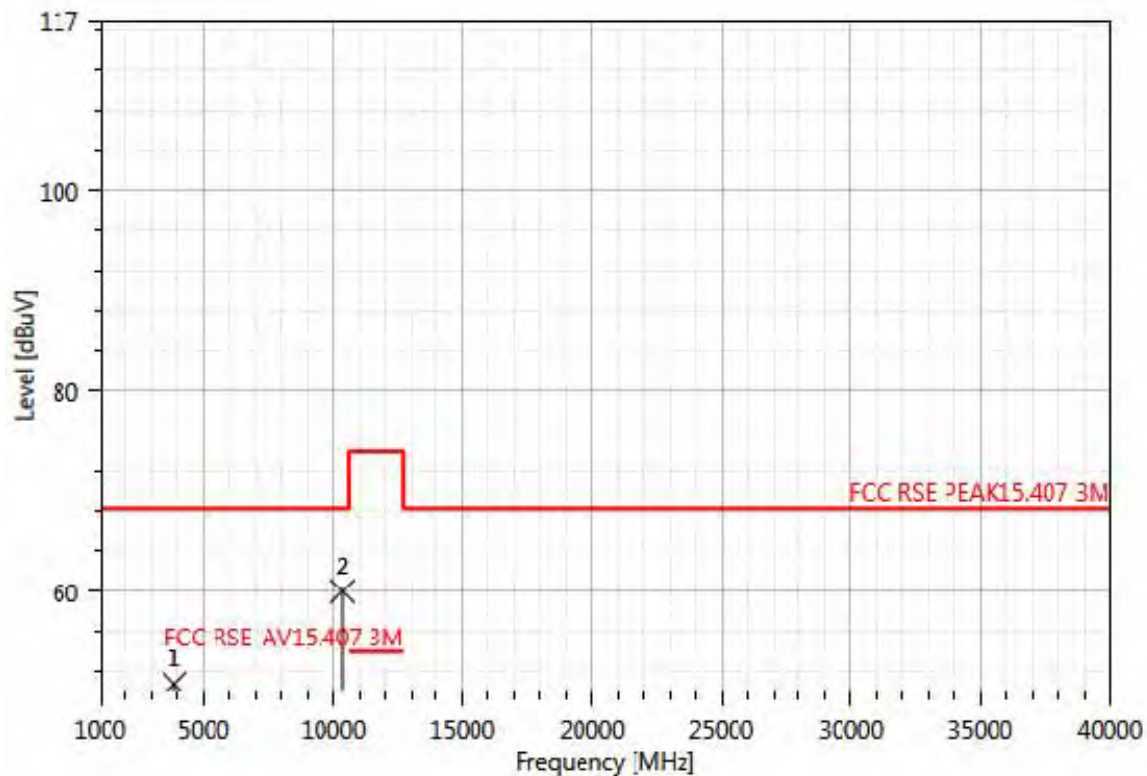
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CDD Mode:

Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B1 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5180 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dBμV/m | Spectrum FS dBμV/m | Factor dB | Limit @ 3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|-----------------------------------|--------------------------|--------------|-------------------------|--------------|
| 3870.00 | S | Peak | 50.80 | 48.51 | 2.30 | 68.30 | -17.50 |
| 10360.00 | H | Peak | 60.04 | 41.75 | 18.29 | 68.30 | -8.26 |

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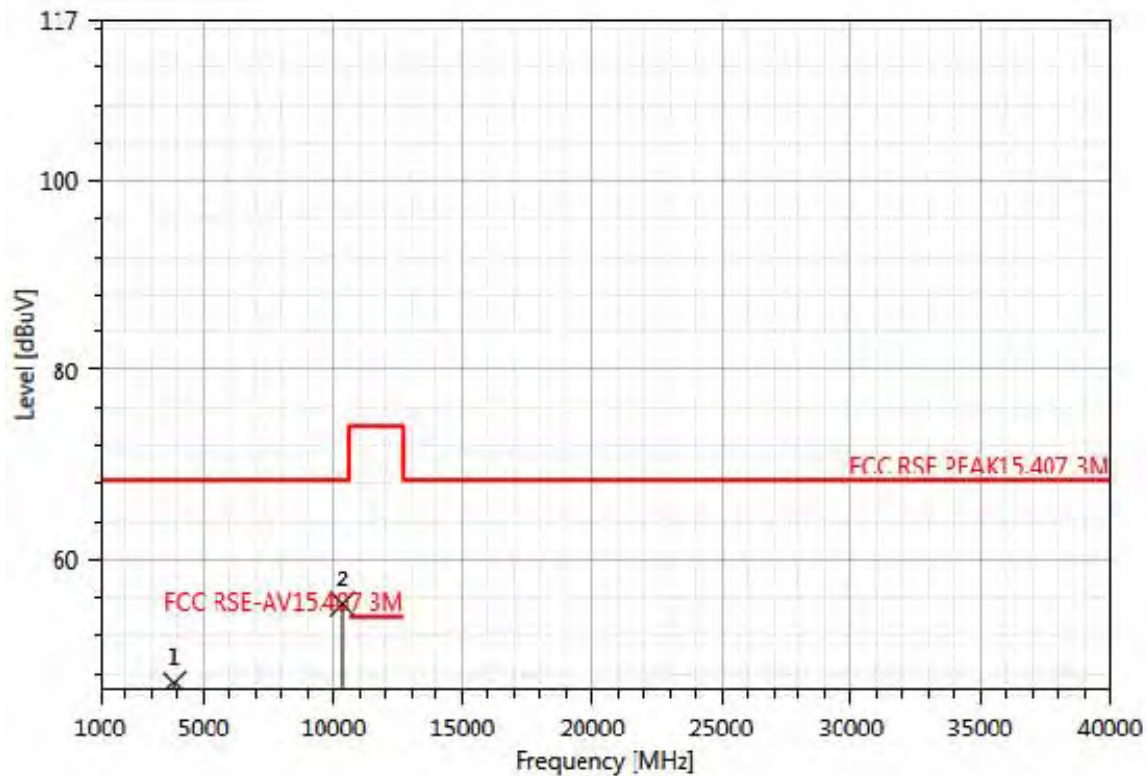
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B1 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5180 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 47.02 | 44.72 | 2.30 | 68.30 | -21.28 |
| 10360.00 | H | Peak | 55.30 | 37.00 | 18.29 | 68.30 | -13.00 |

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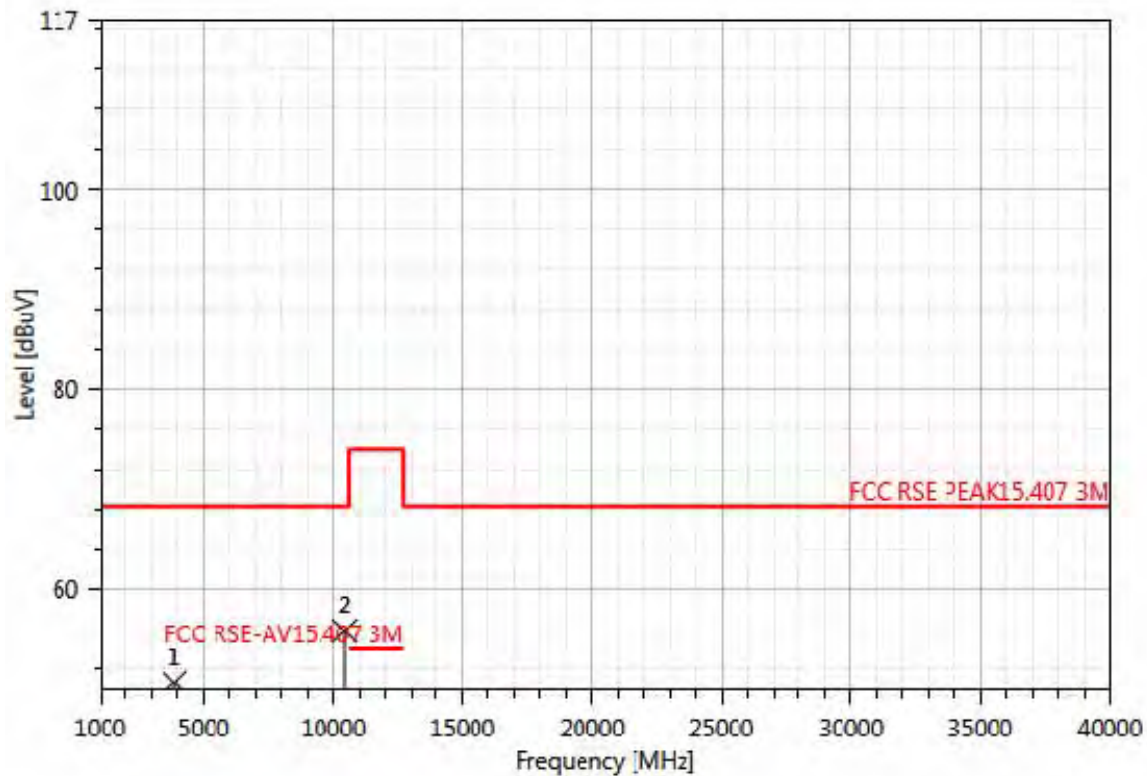
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B1 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5220 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 50.66 | 48.36 | 2.30 | 68.30 | -17.64 |
| 10440.00 | H | Peak | 55.80 | 37.12 | 18.68 | 68.30 | -12.50 |

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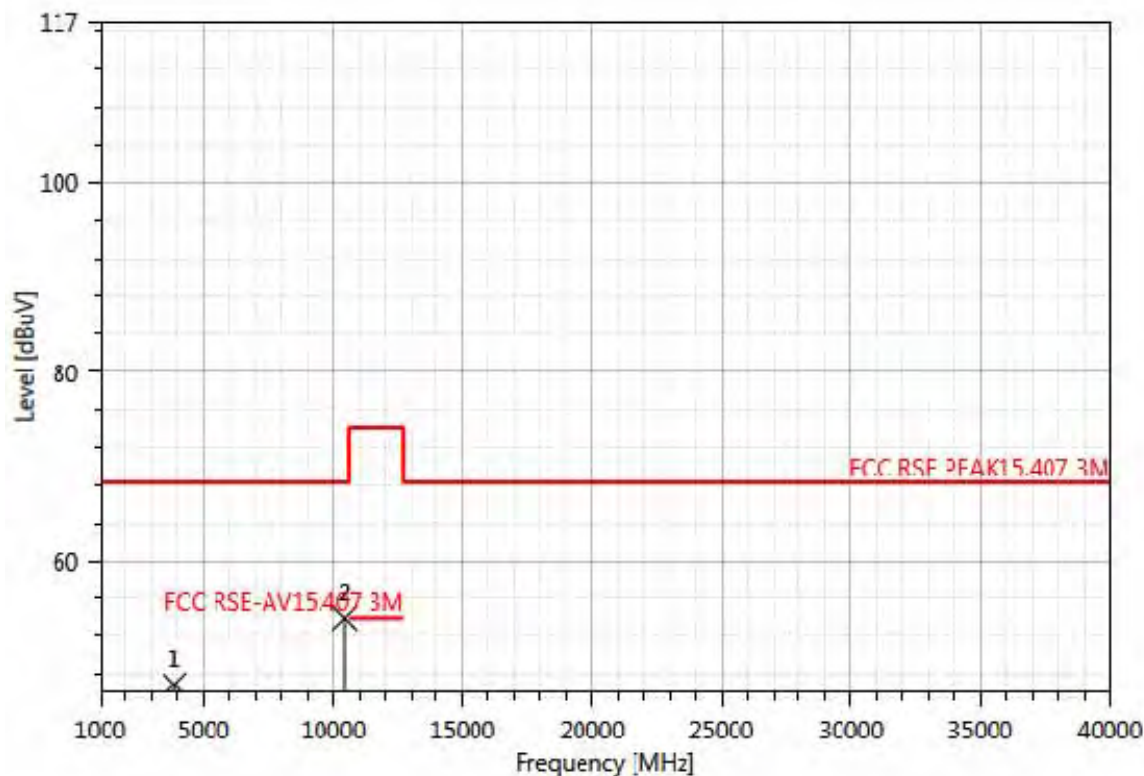
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Operation Mode : 802.11n20B1
 Fundamental Frequency : 5220 MHz
 Operation Band : Tx CH MID
 EUT Pol. : E2 Plane

Test Date : 05/18/2016
 Temp. / Humi. : 21 deg_C / 62 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



| Freq. | Note | Decetor | Actual | Spectrum | Factor | Limit | Margin |
|----------|---------|---------|---------------|----------|--------|-------|--------|
| MHz | F/H/E/S | Mode | Reading Level | FS | dB | @ 3m | dB |
| 3870.00 | S | Peak | 46.95 | 44.66 | 2.30 | 68.30 | -21.35 |
| 10440.00 | H | Peak | 53.97 | 35.29 | 18.68 | 68.30 | -14.33 |

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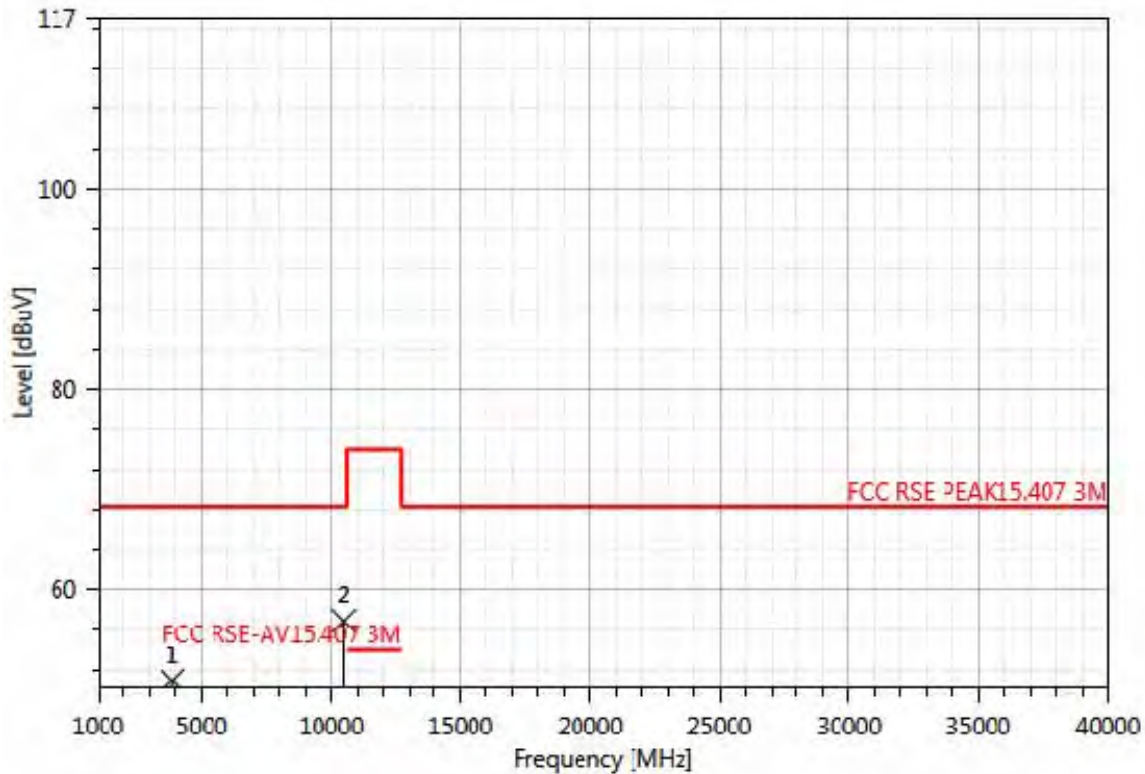
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B1 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5240 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 50.95 | 48.66 | 2.30 | 68.30 | -17.35 |
| 10480.00 | H | Peak | 56.87 | 38.58 | 18.29 | 68.30 | -11.43 |

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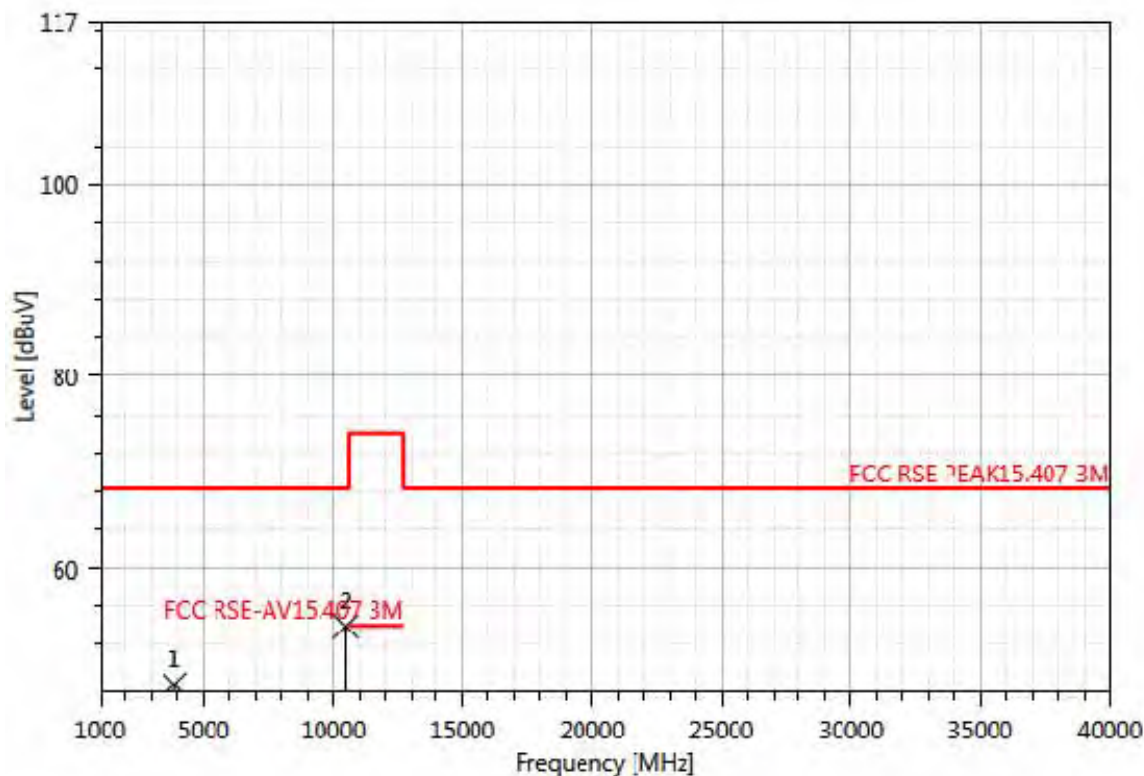
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B1 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5240 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 47.87 | 45.57 | 2.30 | 68.30 | -20.43 |
| 10480.00 | H | Peak | 53.91 | 35.62 | 18.29 | 68.30 | -14.39 |

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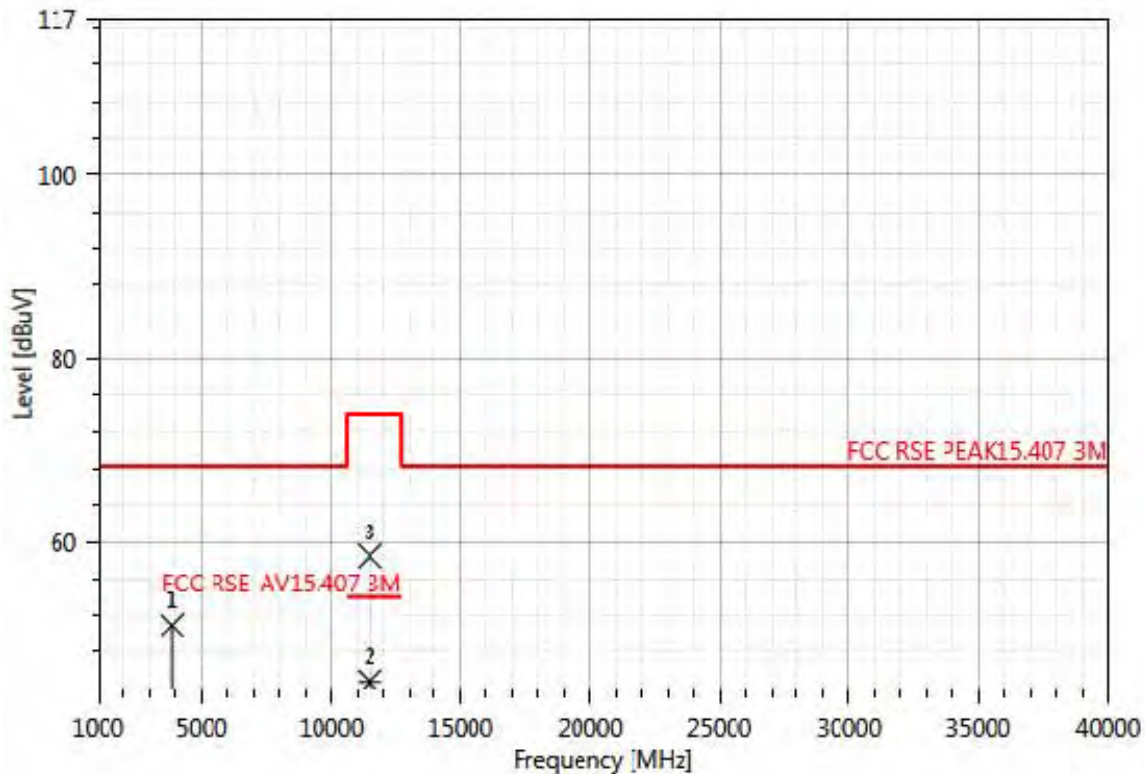
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B4 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5745 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dBμV/m | Spectrum FS dBμV/m | Factor dB | Limit @ 3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|-----------------------------------|--------------------------|--------------|-------------------------|--------------|
| 3770.00 | S | Peak | 50.97 | 48.67 | 2.30 | 68.30 | -17.33 |
| 11490.00 | H | Average | 44.79 | 24.37 | 20.42 | 54.00 | -9.21 |
| 11490.00 | H | Peak | 58.47 | 38.05 | 20.42 | 74.00 | -15.53 |

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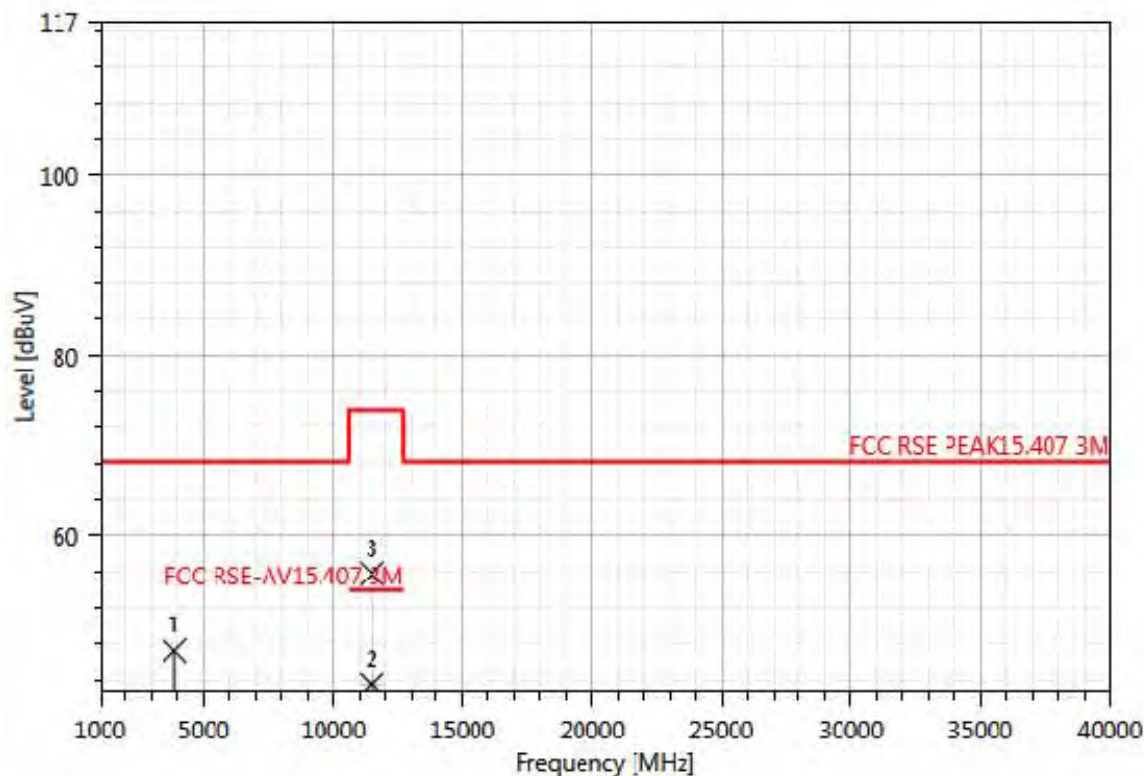
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Operation Mode : 802.11n20B4
 Fundamental Frequency : 5745 MHz
 Operation Band : Tx CH LOW
 EUT Pol. : E2 Plane

Test Date : 05/18/2016
 Temp. / Humi. : 21 deg_C / 62 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 47.26 | 44.96 | 2.30 | 68.30 | -21.04 |
| 11490.00 | H | Average | 43.56 | 23.14 | 20.42 | 54.00 | -10.44 |
| 11490.00 | H | Peak | 55.84 | 35.42 | 20.42 | 74.00 | -18.16 |

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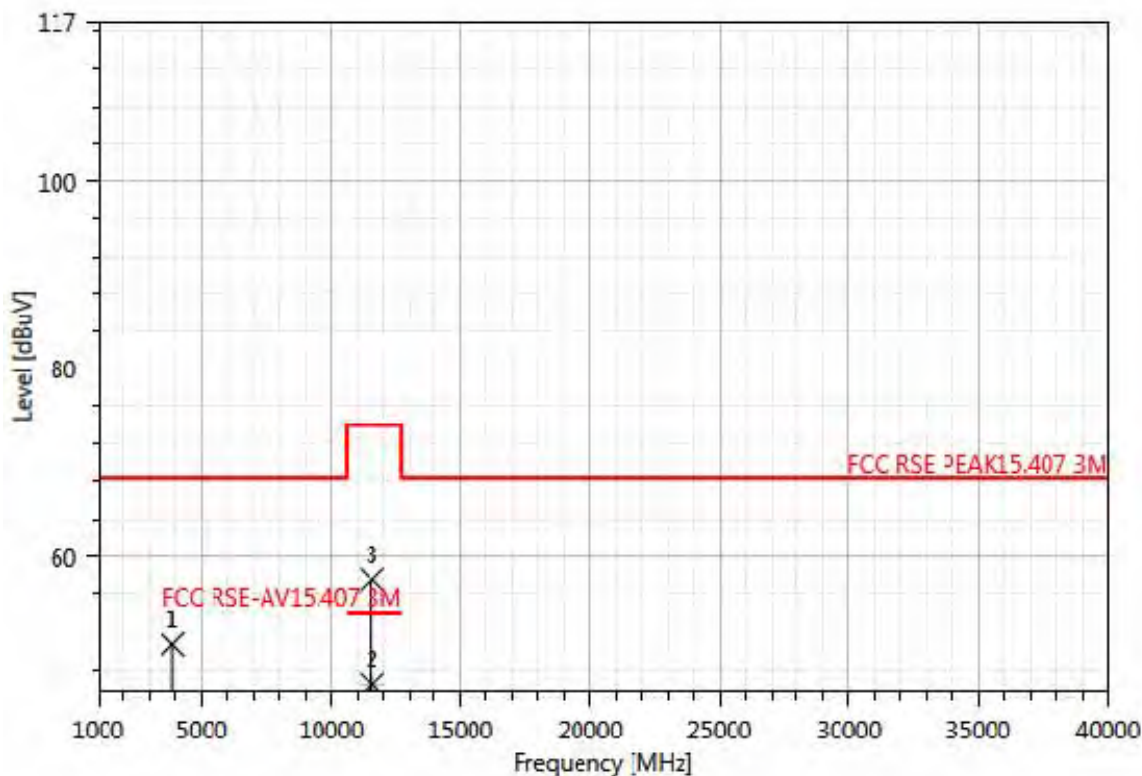
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B4 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5785 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 50.58 | 48.28 | 2.30 | 68.30 | -17.72 |
| 11570.00 | H | Average | 46.38 | 25.79 | 20.59 | 54.00 | -7.62 |
| 11570.00 | H | Peak | 57.55 | 36.97 | 20.59 | 74.00 | -16.45 |

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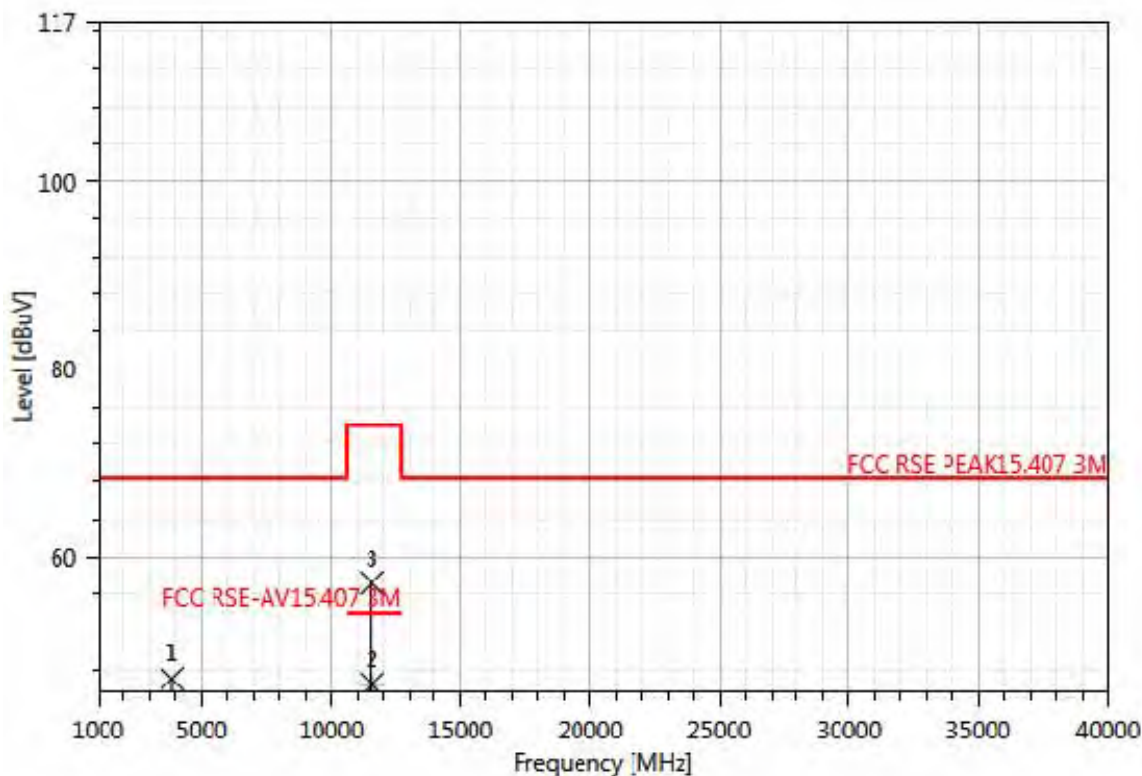
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B4 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5785 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3856.00 | S | Peak | 47.00 | 44.76 | 2.24 | 68.30 | -21.30 |
| 11570.00 | H | Average | 46.41 | 25.82 | 20.59 | 54.00 | -7.59 |
| 11570.00 | H | Peak | 57.21 | 36.62 | 20.59 | 74.00 | -16.79 |

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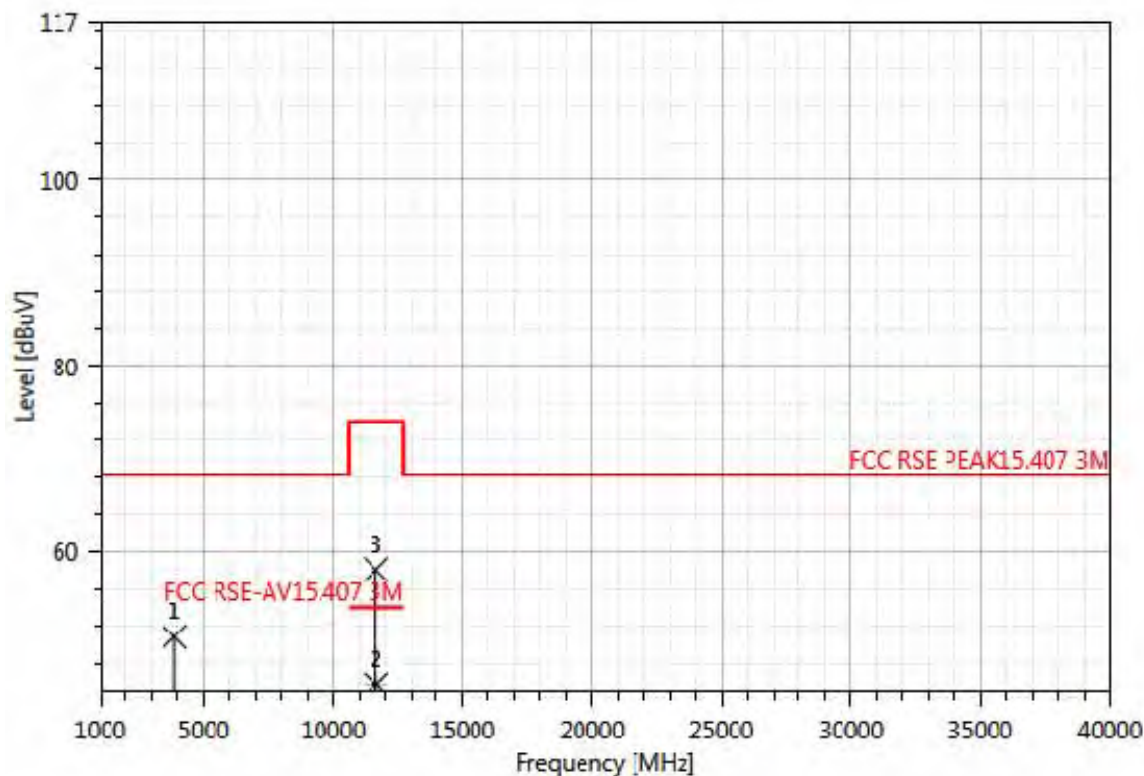
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Operation Mode : 802.11n20B4
Fundamental Frequency : 5825 MHz
Operation Band : Tx CH HIGH
EUT Pol. : E2 Plane

Test Date : 05/18/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : VERTICAL



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 50.86 | 48.56 | 2.30 | 68.30 | -17.44 |
| 11650.00 | H | Average | 45.73 | 25.30 | 20.43 | 54.00 | -8.27 |
| 11650.00 | H | Peak | 58.09 | 37.66 | 20.43 | 74.00 | -15.91 |

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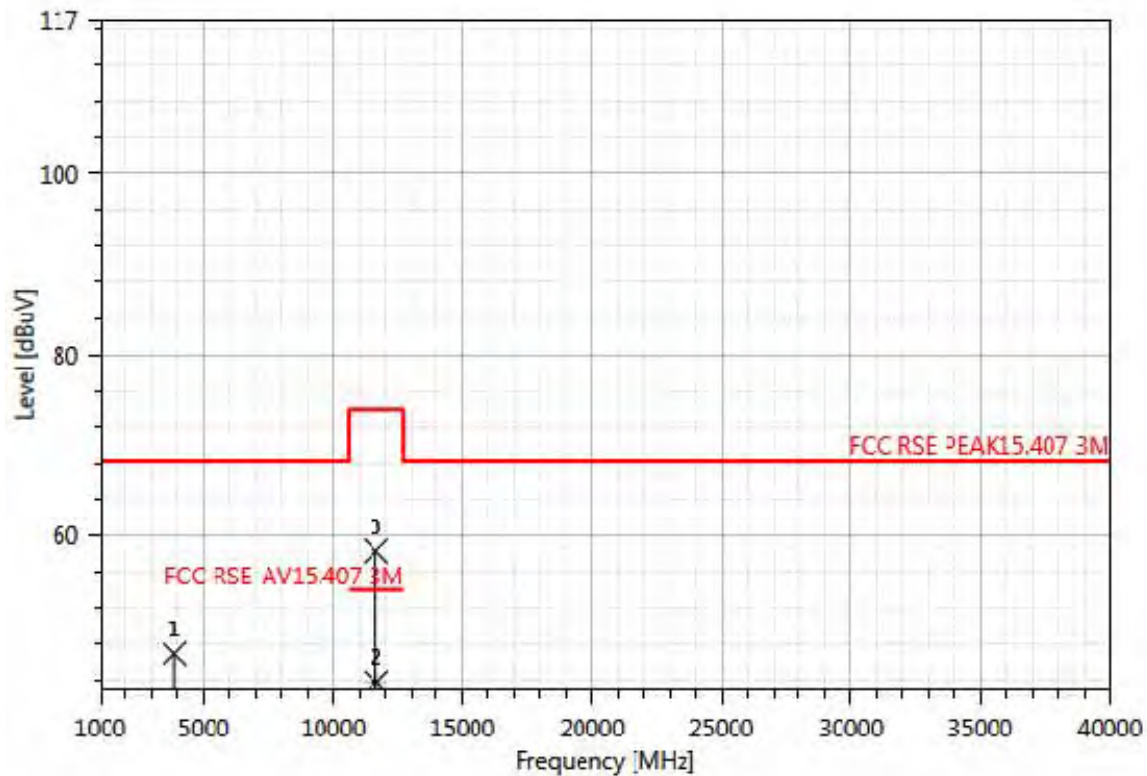
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f (886-2) 2298-0488

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Operation Mode : 802.11n20B4 Test Date : 05/18/2016
Fundamental Frequency : 5825 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH HIGH Test Engineer : Kane
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



| Freq. | Note | Detector Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|---------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 46.94 | 44.65 | 2.30 | 68.30 | -21.36 |
| 11650.00 | H | Average | 43.78 | 23.35 | 20.43 | 54.00 | -10.22 |
| 11650.00 | H | Peak | 58.29 | 37.86 | 20.43 | 74.00 | -15.71 |

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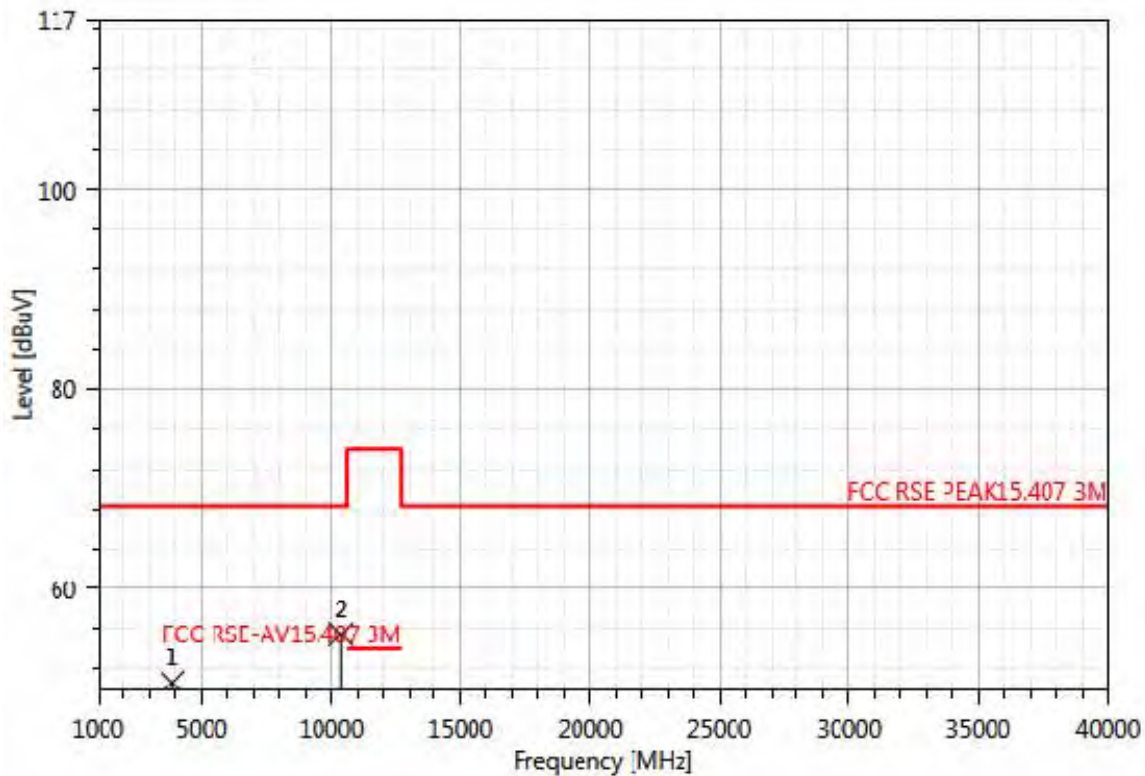
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n40B1 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5190 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dBμV/m | Spectrum FS dBμV/m | Factor dB | Limit @ 3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|-----------------------------------|--------------------------|--------------|-------------------------|--------------|
| 3870.00 | S | Peak | 50.63 | 48.33 | 2.30 | 68.30 | -17.67 |
| 10380.00 | H | Peak | 55.48 | 37.35 | 18.12 | 68.30 | -12.82 |

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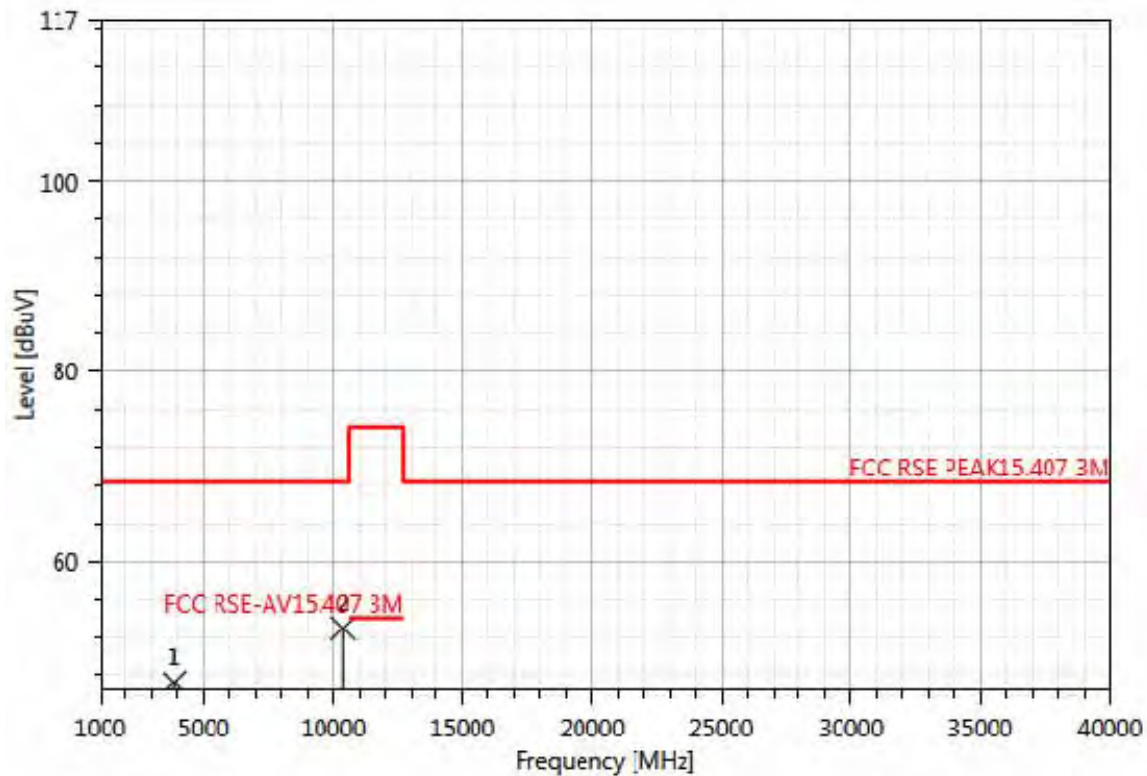
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n40B1 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5190 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 47.21 | 44.92 | 2.30 | 68.30 | -21.09 |
| 10380.00 | H | Peak | 52.91 | 34.78 | 18.12 | 68.30 | -15.39 |

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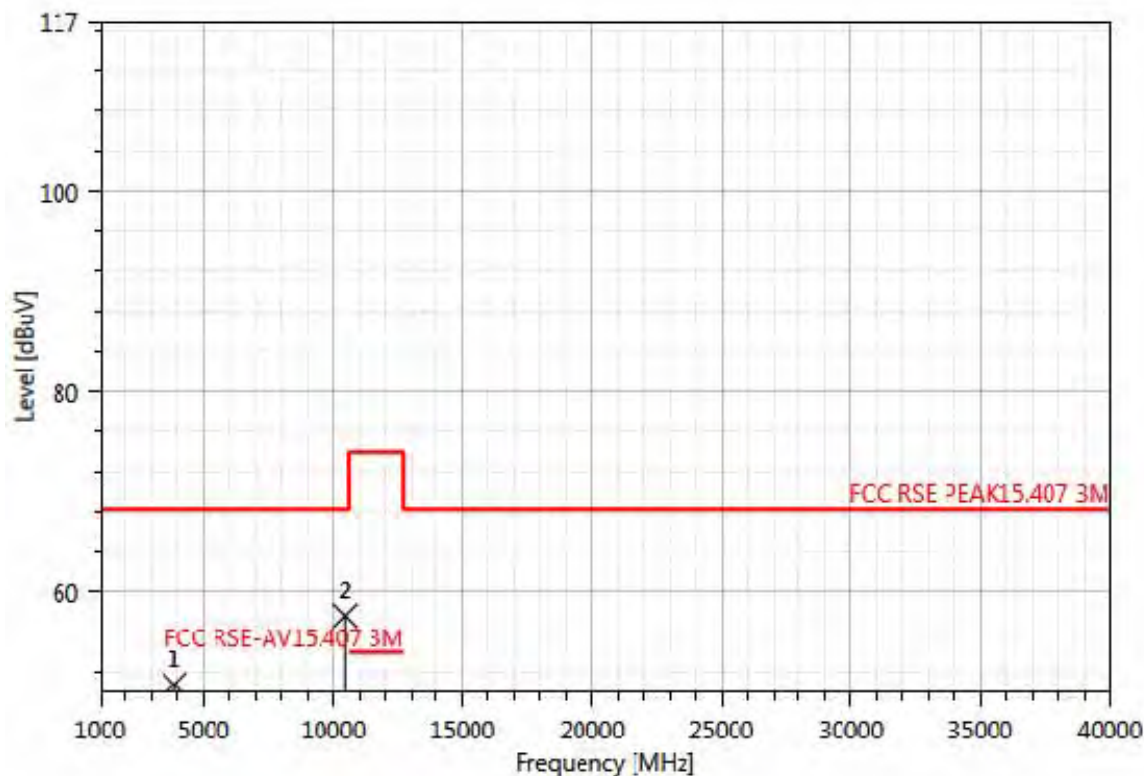
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n40B1 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5230 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 50.78 | 48.48 | 2.30 | 68.30 | -17.52 |
| 10460.00 | H | Peak | 57.64 | 39.10 | 18.54 | 68.30 | -10.66 |

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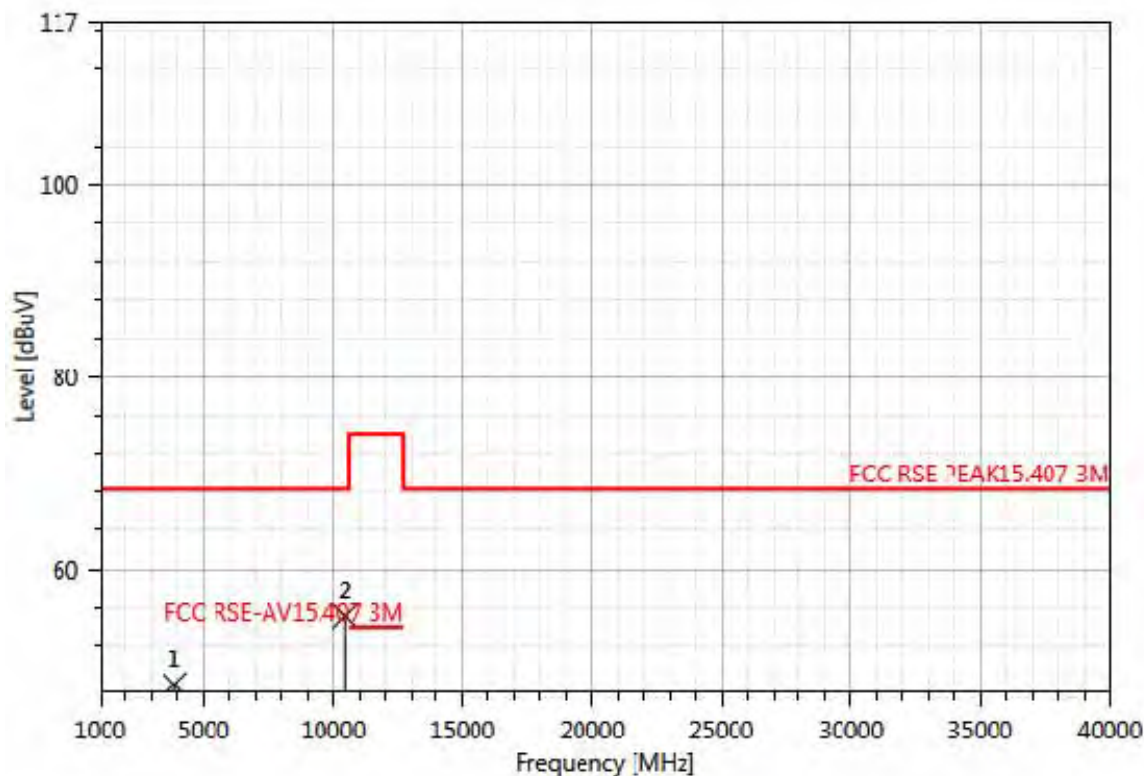
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n40B1 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5230 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 47.99 | 45.69 | 2.30 | 68.30 | -20.31 |
| 10460.00 | H | Peak | 55.15 | 36.61 | 18.54 | 68.30 | -13.15 |

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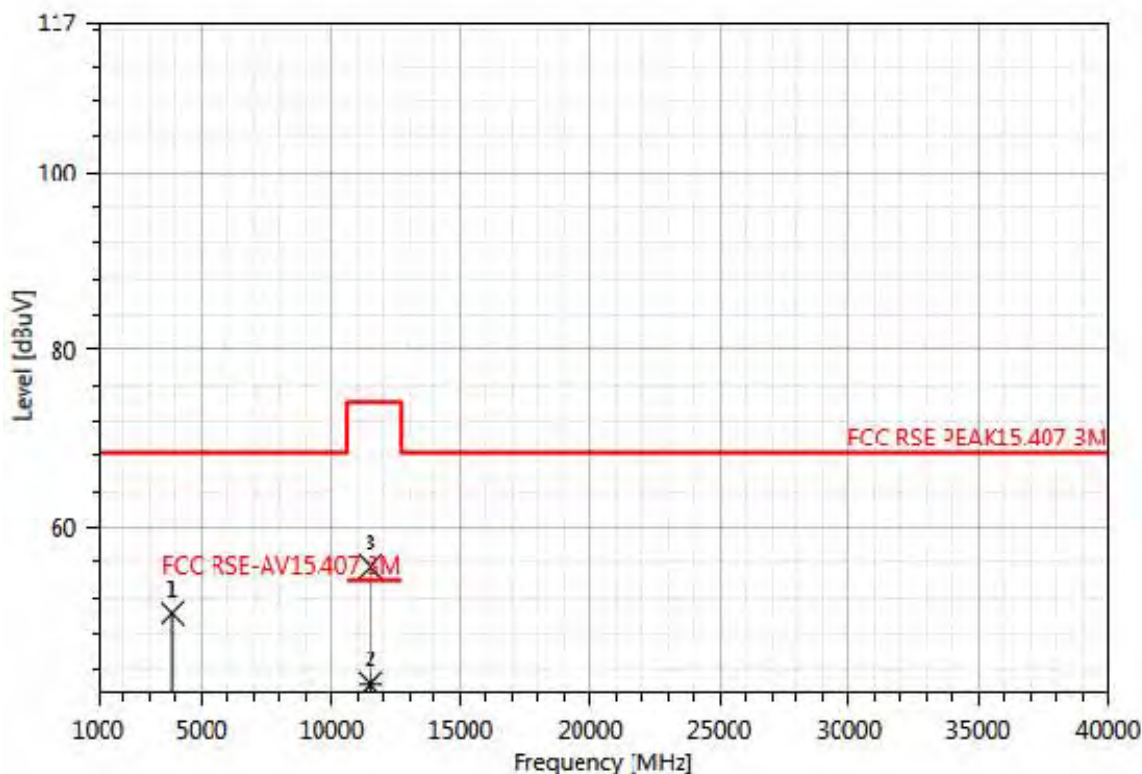
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n40B4 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5755 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dBμV/m | Spectrum FS dBμV/m | Factor dB | Limit @ 3m dBμV/m | Margin dB |
|--------------|-----------------|-----------------------------|-----------------------------------|--------------------------|--------------|-------------------------|--------------|
| 3870.00 | S | Peak | 50.20 | 47.91 | 2.30 | 68.30 | -18.10 |
| 11510.00 | H | Average | 42.27 | 21.88 | 20.39 | 54.00 | -11.73 |
| 11510.00 | H | Peak | 55.51 | 35.12 | 20.39 | 74.00 | -18.49 |

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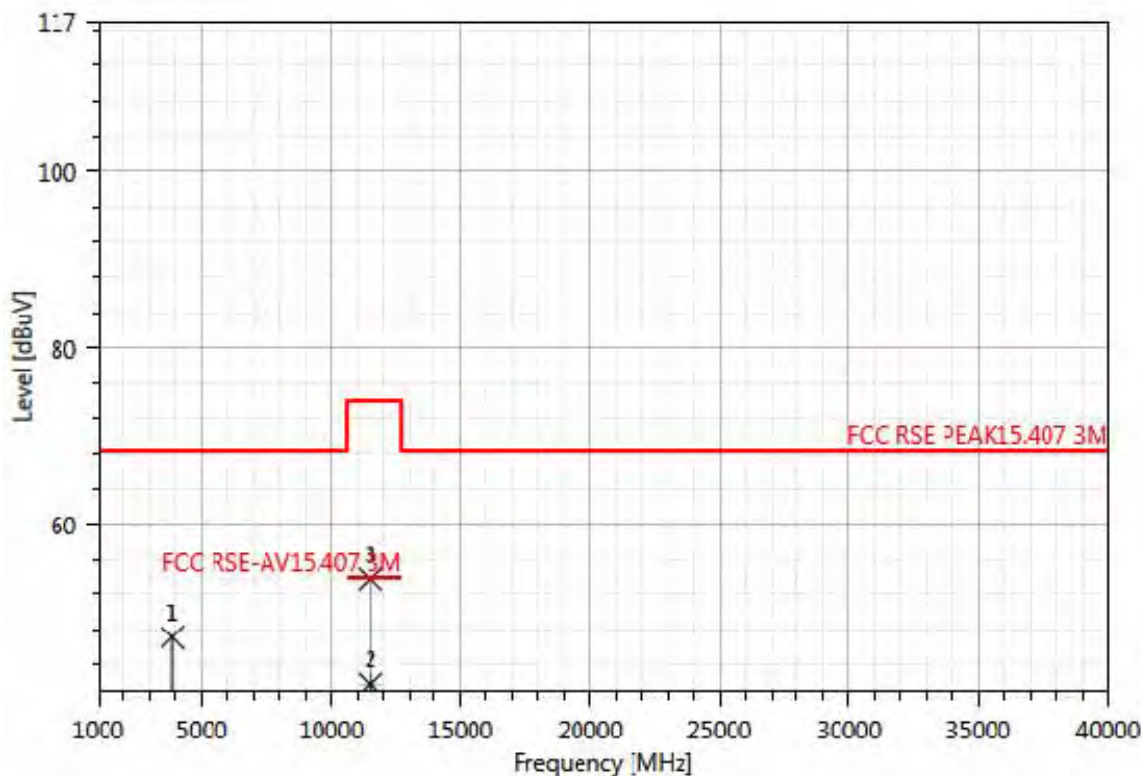
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Operation Mode : 802.11n40B4
 Fundamental Frequency : 5755 MHz
 Operation Band : Tx CH LOW
 EUT Pol. : E2 Plane

Test Date : 05/18/2016
 Temp. / Humi. : 21 deg_C / 62 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dBμV/m | Spectrum FS dBμV/m | Factor dB | Limit @ 3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|-----------------------------------|--------------------------|--------------|-------------------------|--------------|
| 3870.00 | S | Peak | 47.12 | 44.83 | 2.30 | 68.30 | -21.18 |
| 11510.00 | H | Average | 41.79 | 21.40 | 20.39 | 54.00 | -12.21 |
| 11510.00 | H | Peak | 53.74 | 33.35 | 20.39 | 74.00 | -20.26 |

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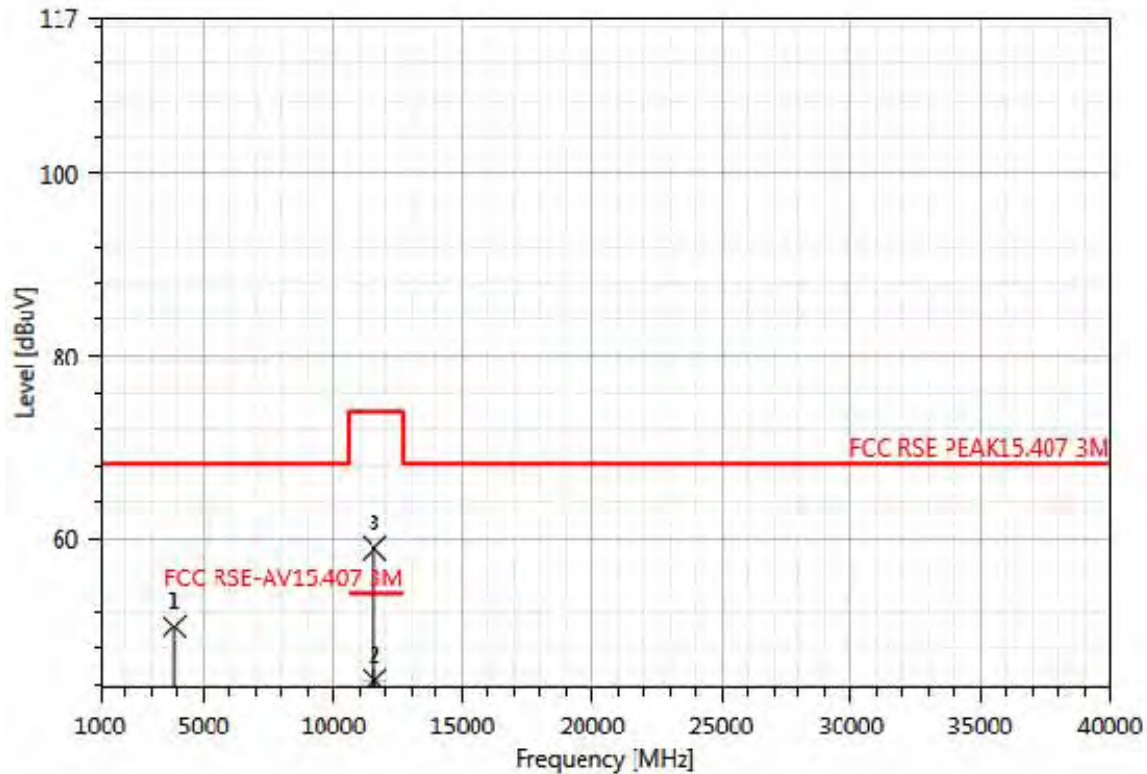
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n40B4 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5795 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 50.40 | 48.10 | 2.30 | 68.30 | -17.90 |
| 11590.00 | H | Average | 44.52 | 24.09 | 20.43 | 54.00 | -9.48 |
| 11590.00 | H | Peak | 58.98 | 38.54 | 20.43 | 74.00 | -15.02 |

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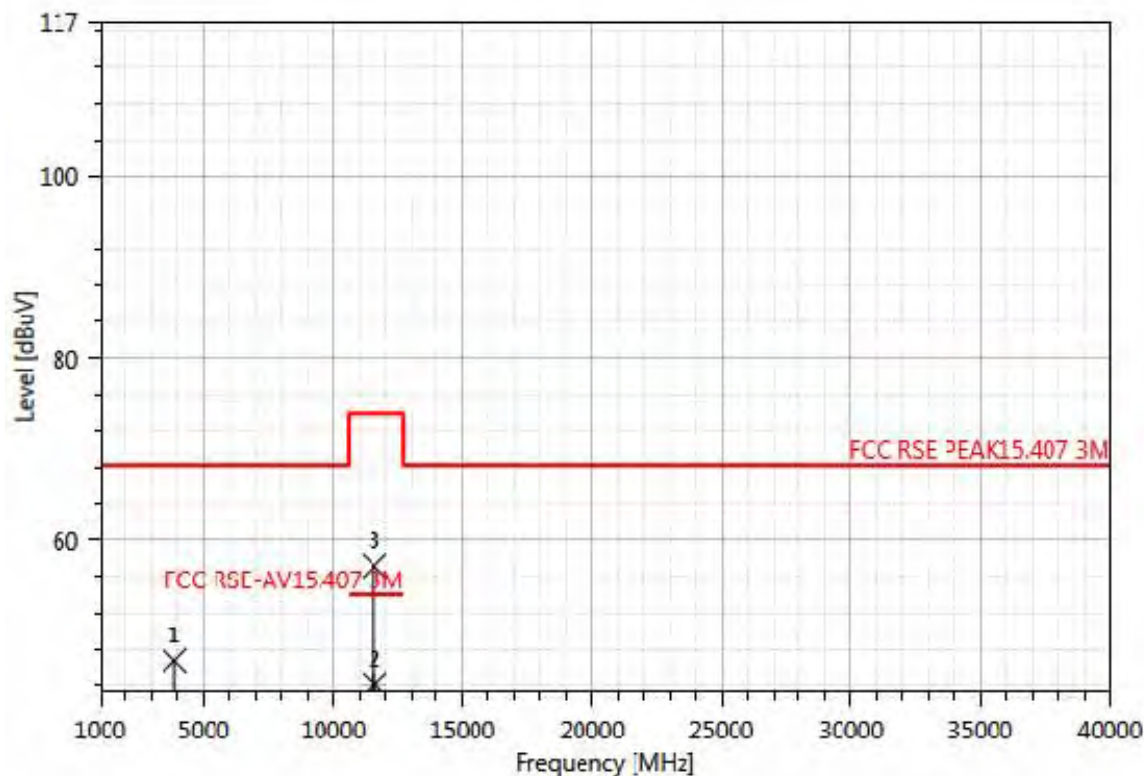
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n40B4 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5795 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Detector Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|---------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 46.79 | 44.49 | 2.30 | 68.30 | -21.51 |
| 11590.00 | H | Average | 44.16 | 23.73 | 20.43 | 54.00 | -9.84 |
| 11590.00 | H | Peak | 57.20 | 36.77 | 20.43 | 74.00 | -16.80 |

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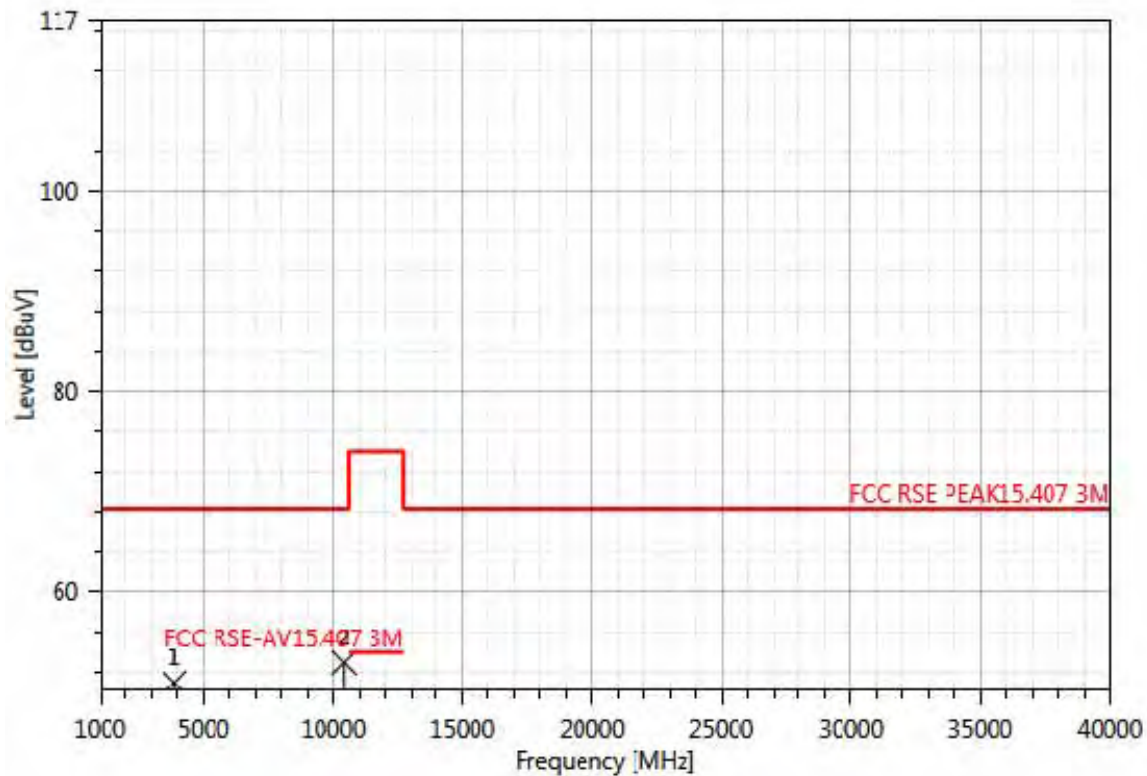
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

| | | | |
|-------------------------|--------------|----------------------------|------------------|
| Operation Mode : | 802.11ac80B1 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5210 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dBμV/m | Spectrum FS dBμV/m | Factor dB | Limit @ 3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|-----------------------------------|--------------------------|--------------|-------------------------|--------------|
| 3870.00 | S | Peak | 50.98 | 48.68 | 2.30 | 68.30 | -17.32 |
| 10420.00 | H | Peak | 52.97 | 34.26 | 18.71 | 68.30 | -15.33 |

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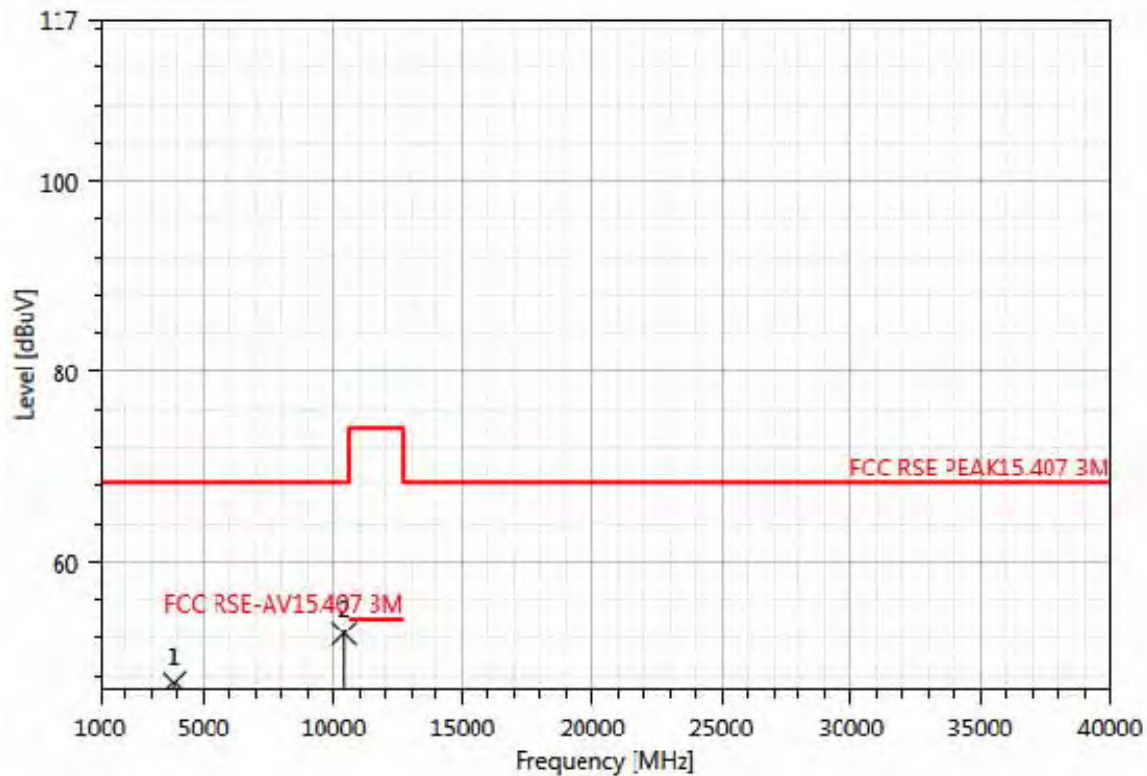
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| | | | |
|-------------------------|--------------|----------------------------|------------------|
| Operation Mode : | 802.11ac80B1 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5210 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 47.35 | 45.05 | 2.30 | 68.30 | -20.95 |
| 10420.00 | H | Peak | 52.49 | 33.78 | 18.71 | 68.30 | -15.81 |

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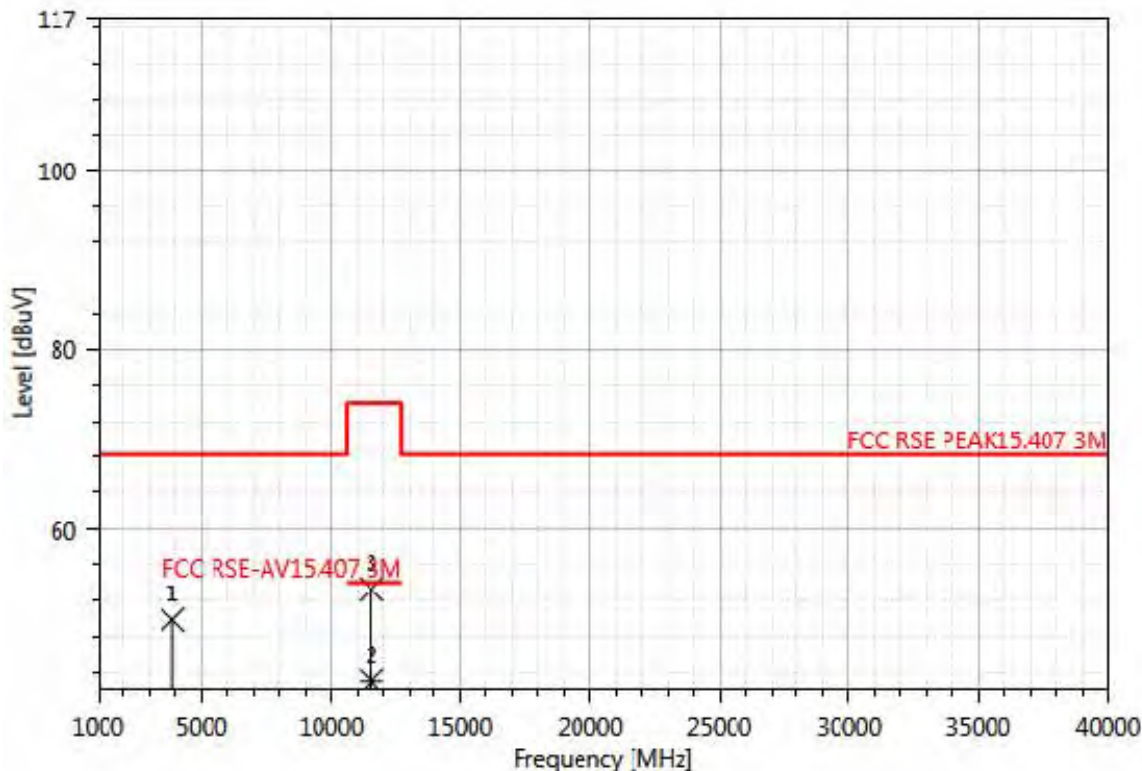
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

| | | | |
|-------------------------|--------------|----------------------------|------------------|
| Operation Mode : | 802.11ac80B4 | Test Date : | 05/18/2016 |
| Fundamental Frequency : | 5775 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 49.86 | 47.57 | 2.30 | 68.30 | -18.44 |
| 11550.00 | H | Average | 43.00 | 22.48 | 20.52 | 54.00 | -11.00 |
| 11550.00 | H | Peak | 53.23 | 32.71 | 20.52 | 74.00 | -20.77 |

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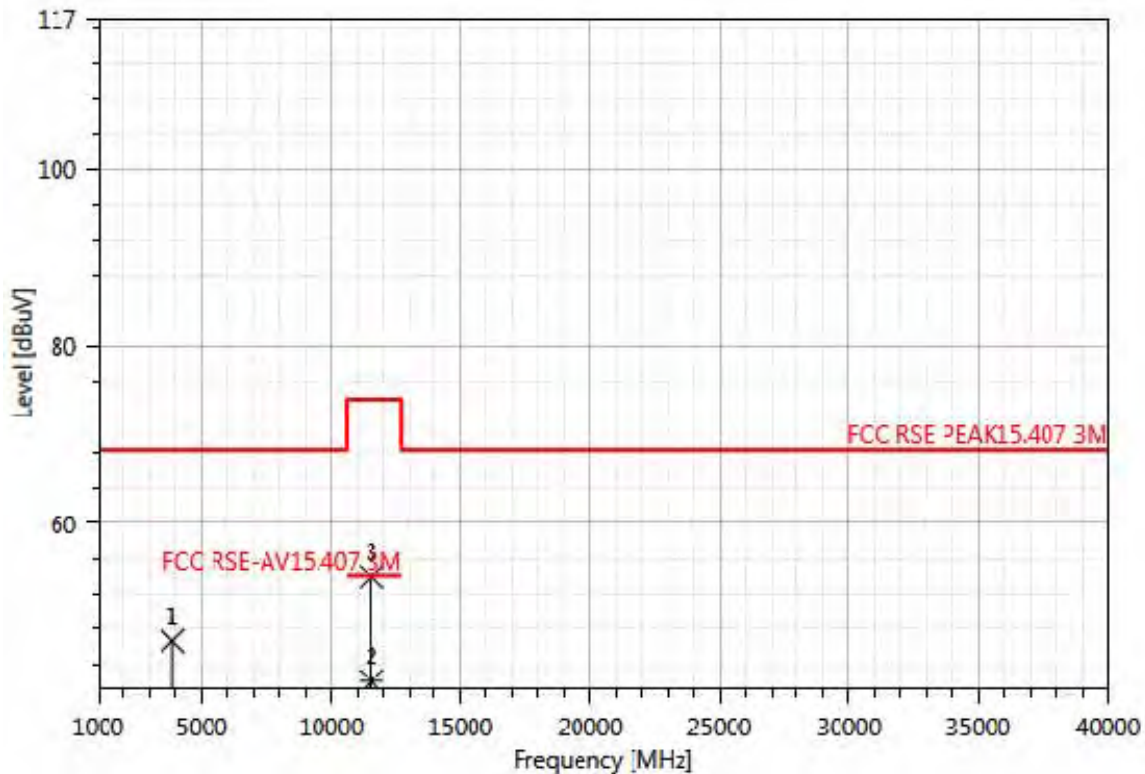
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Operation Mode : 802.11ac80B4 Test Date : 05/18/2016
Fundamental Frequency : 5775 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH HIGH Test Engineer : Kane
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 3870.00 | S | Peak | 46.65 | 44.35 | 2.30 | 68.30 | -21.65 |
| 11550.00 | H | Average | 42.14 | 21.62 | 20.52 | 54.00 | -11.86 |
| 11550.00 | H | Peak | 53.94 | 33.42 | 20.52 | 74.00 | -20.06 |

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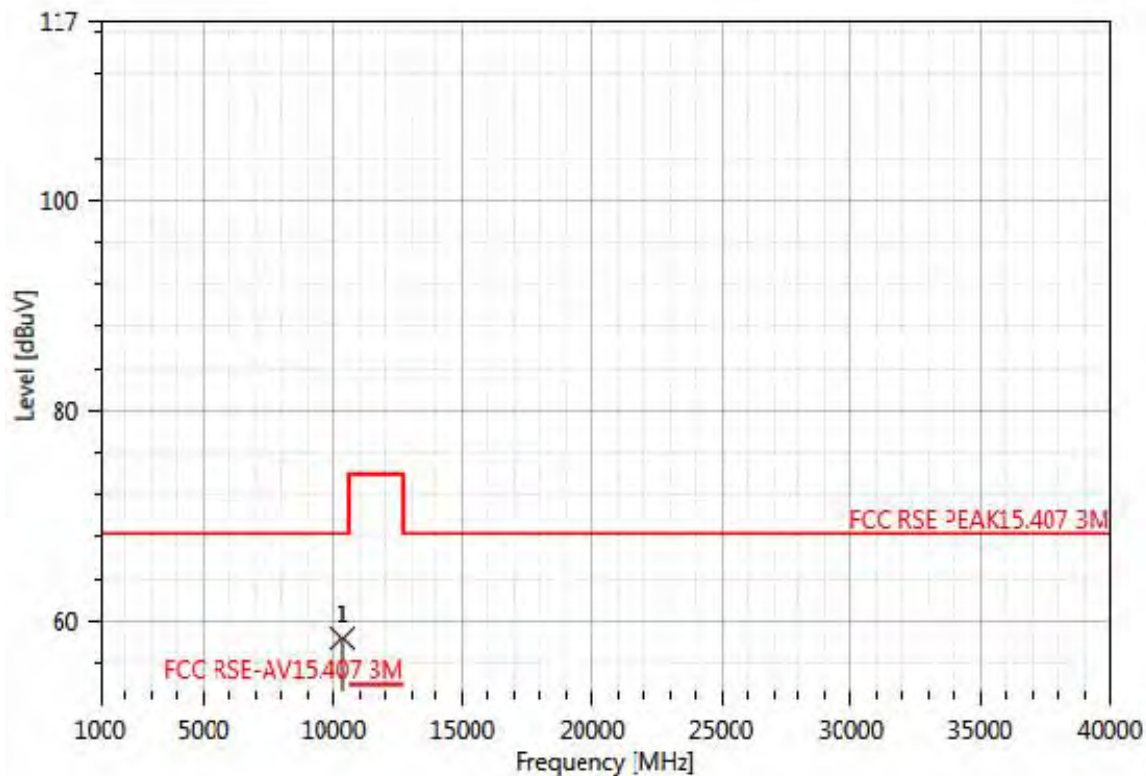
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Beam Forming Mode:

Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B1 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5180 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBuV/m | dBuV/m | dB | dBuV/m | dB |
| 10360.00 | H | Peak | 58.30 | 40.01 | 18.29 | 68.30 | -10.00 |

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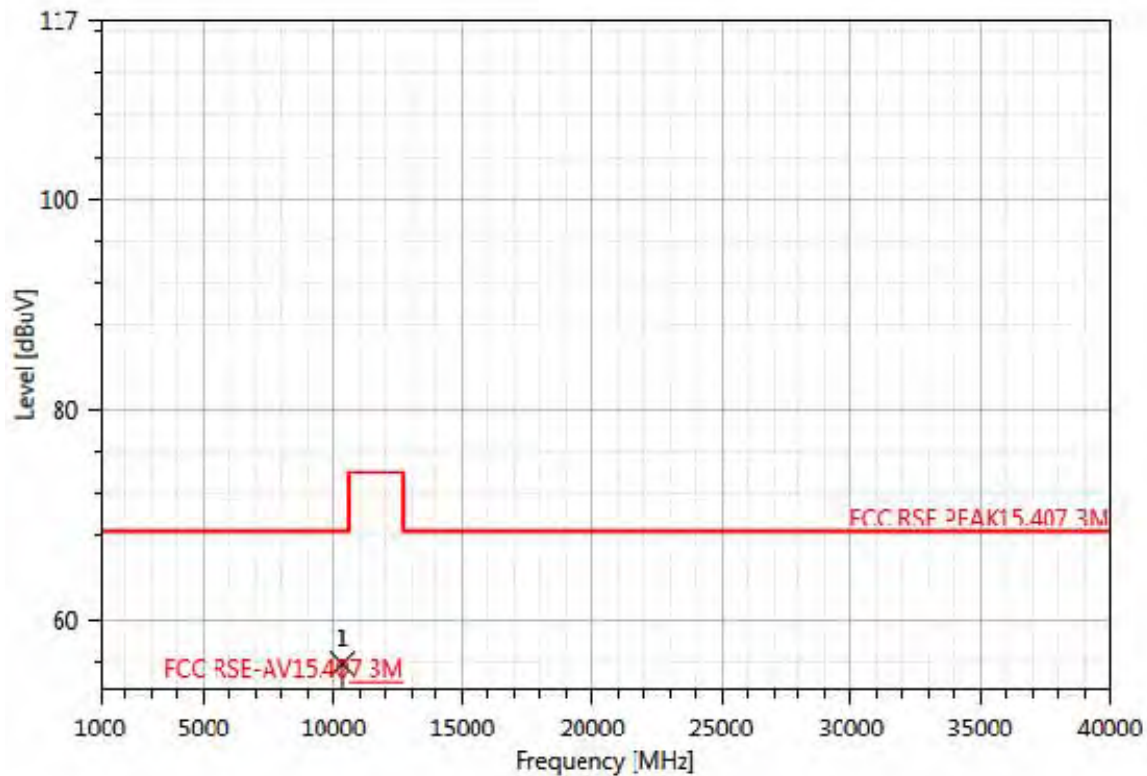
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B1 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5180 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 10360.00 | H | Peak | 55.78 | 37.49 | 18.29 | 68.30 | -12.52 |

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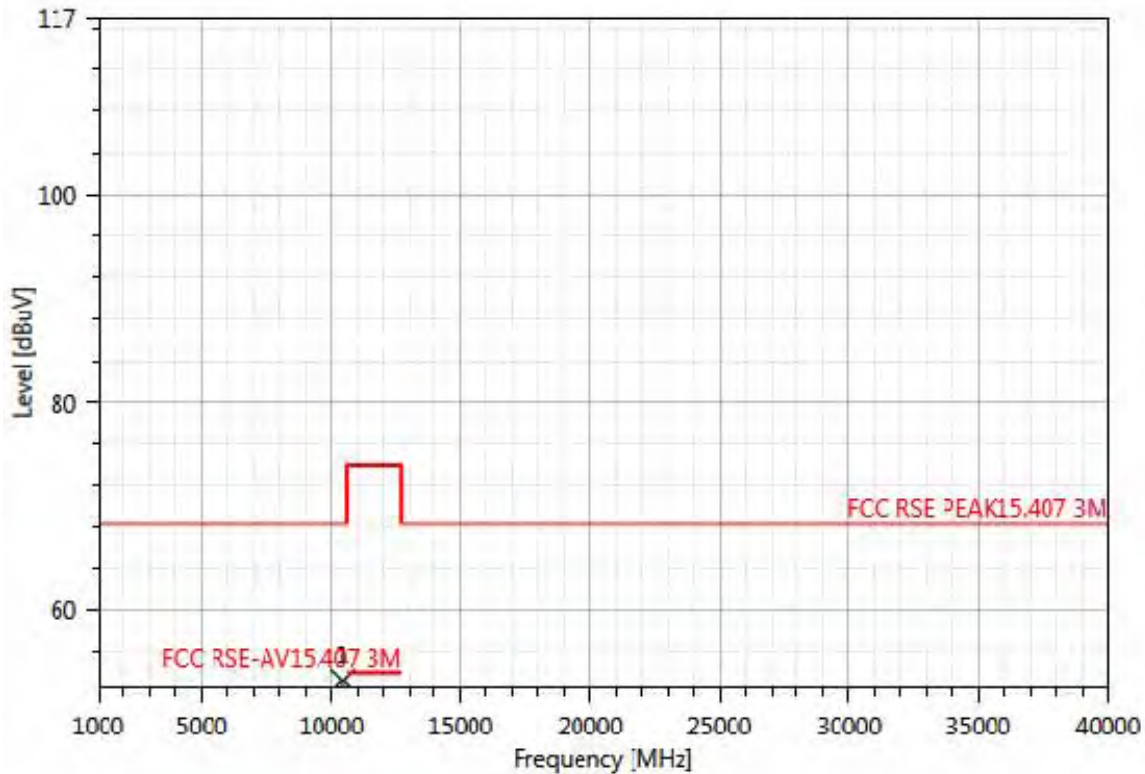
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B1 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5220 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 10440.00 | H | Peak | 53.22 | 34.53 | 18.68 | 68.30 | -15.08 |

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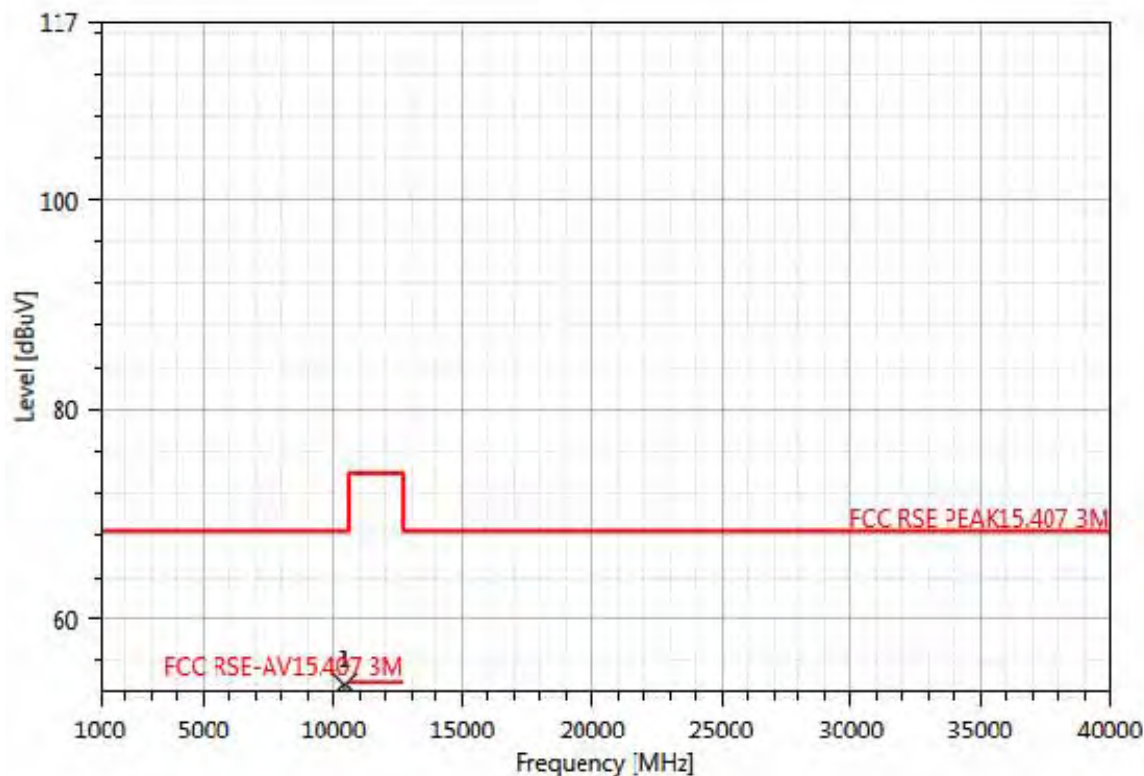
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B1 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5220 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 10440.00 | H | Peak | 53.74 | 35.06 | 18.68 | 68.30 | -14.56 |

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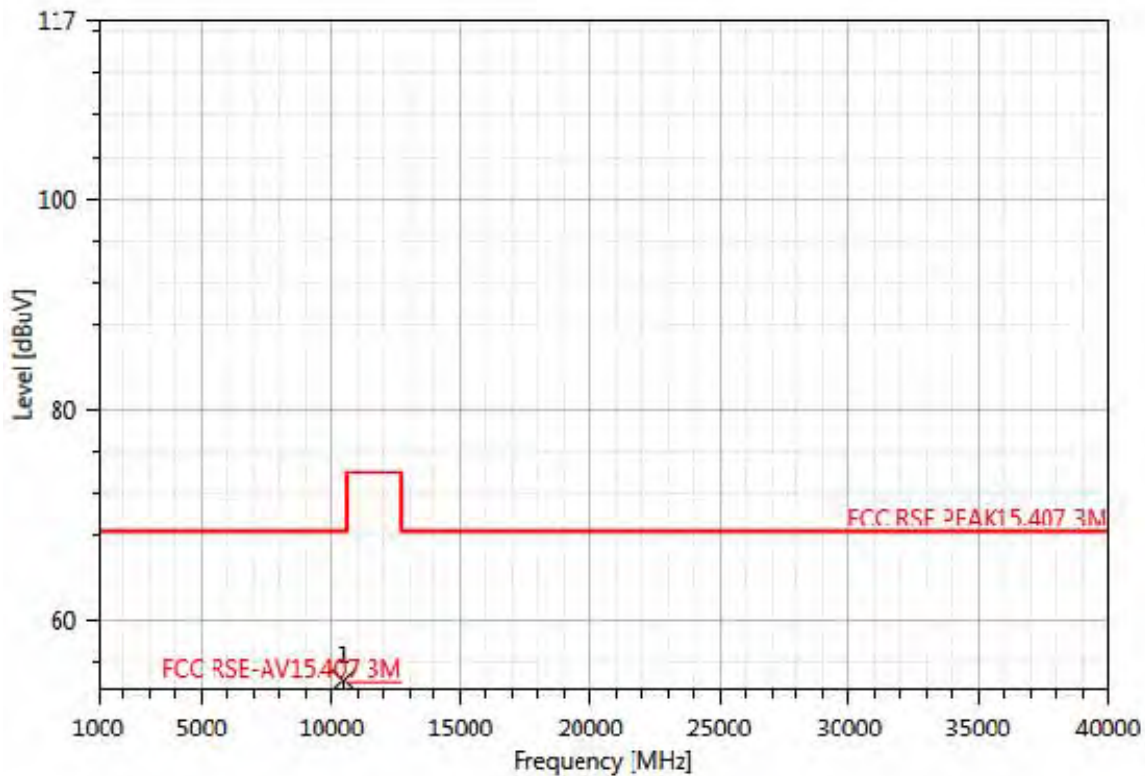
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B1 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5240 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 10480.00 | H | Peak | 54.20 | 35.91 | 18.29 | 68.30 | -14.10 |

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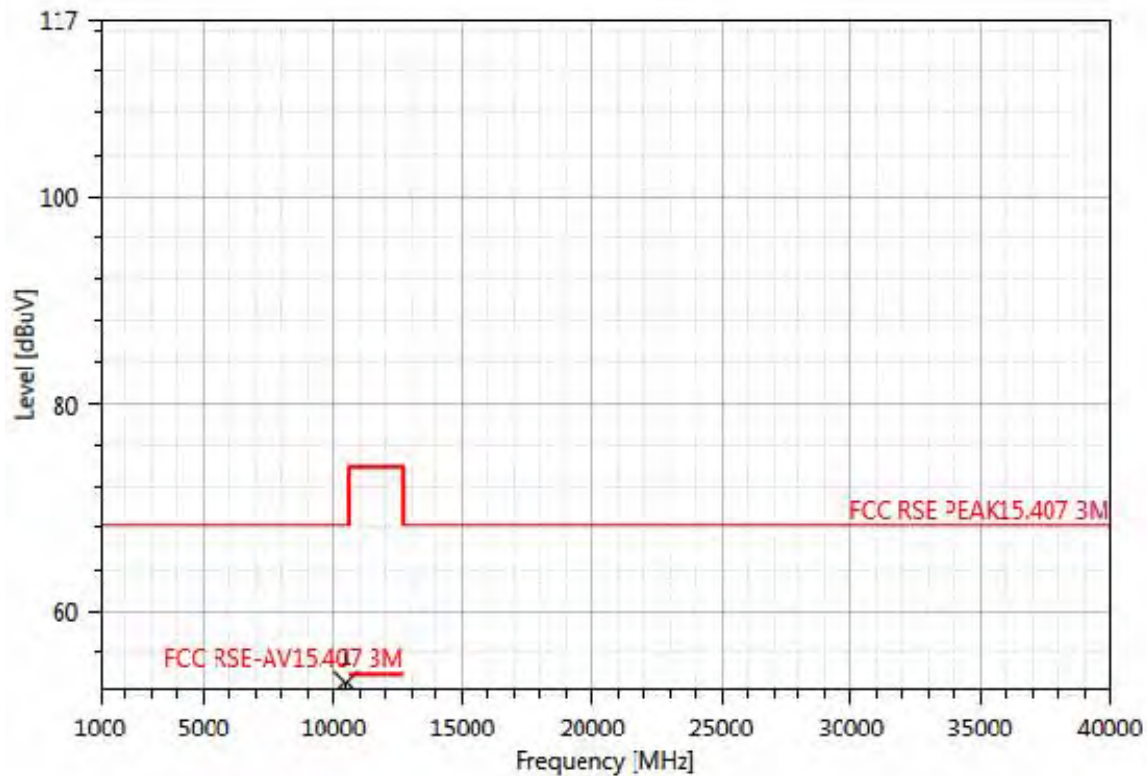
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B1 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5240 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 10480.00 | H | Peak | 53.16 | 34.87 | 18.29 | 68.30 | -15.14 |

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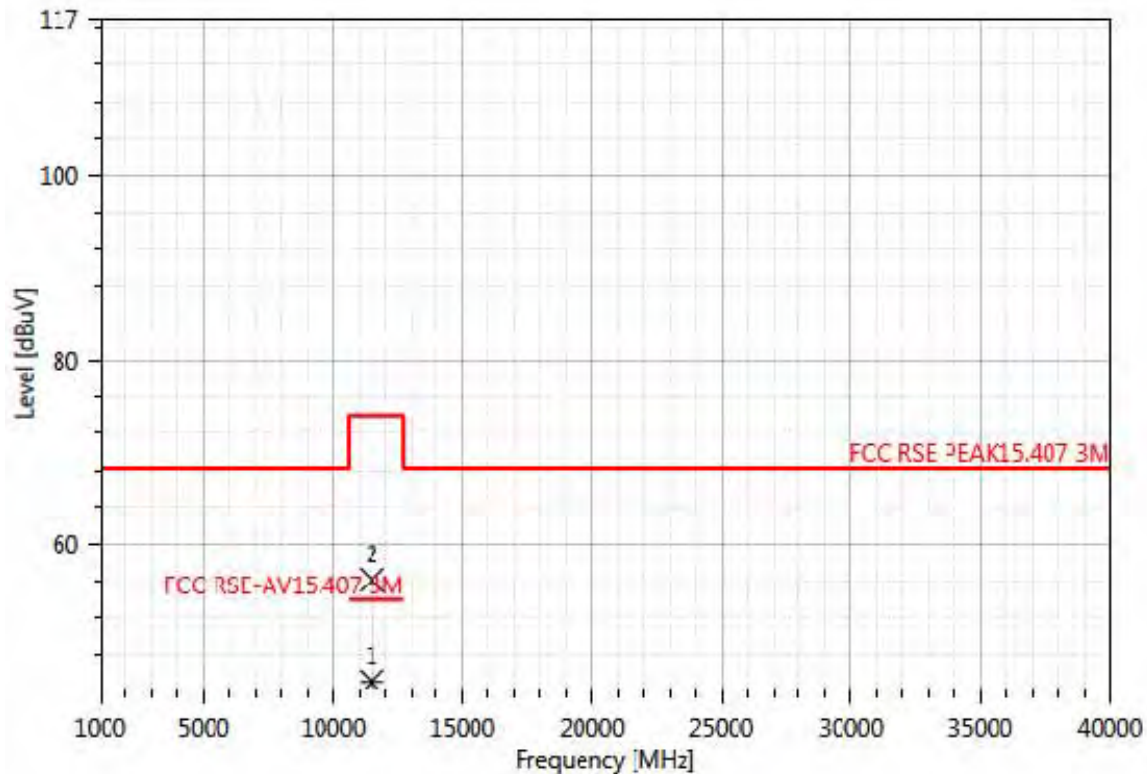
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B4 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5745 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dBμV/m | Spectrum FS dBμV/m | Factor dB | Limit @ 3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|-----------------------------------|--------------------------|--------------|-------------------------|--------------|
| 11490.00 | H | Average | 45.08 | 24.66 | 20.42 | 54.00 | -8.92 |
| 11490.00 | H | Peak | 56.13 | 35.71 | 20.42 | 74.00 | -17.87 |

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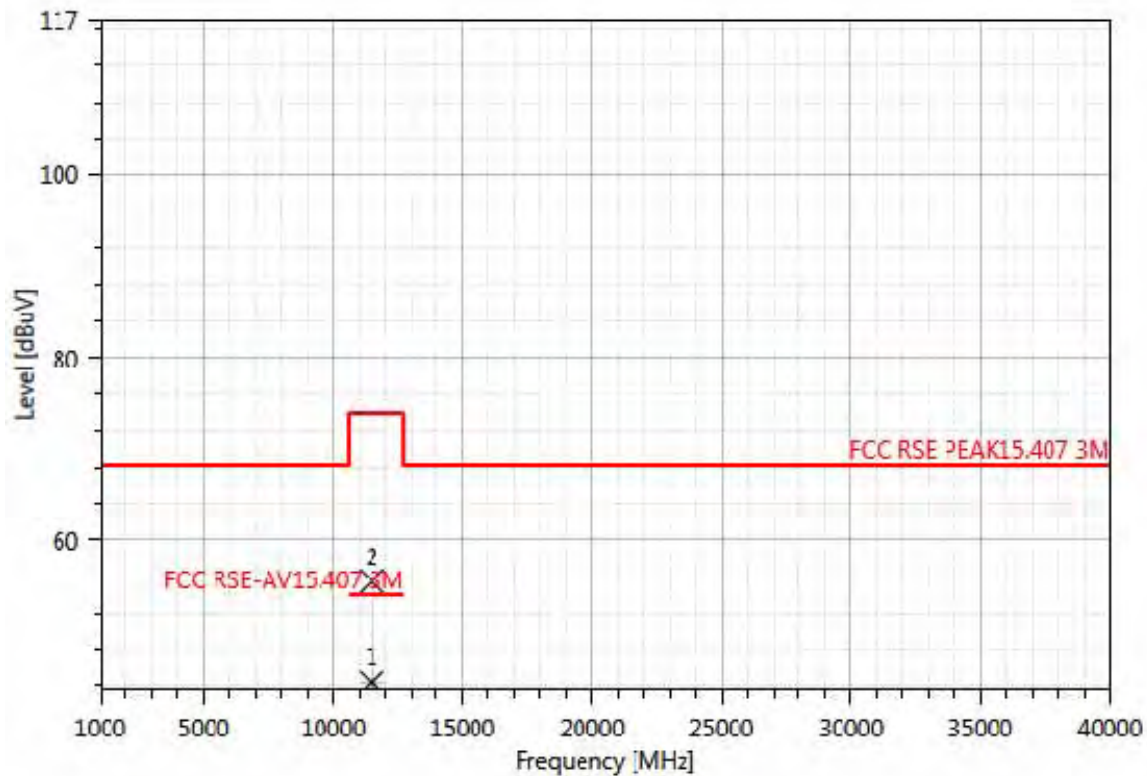
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B4 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5745 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 11490.00 | H | Average | 44.44 | 24.02 | 20.42 | 54.00 | -9.56 |
| 11490.00 | H | Peak | 55.53 | 35.10 | 20.42 | 74.00 | -18.47 |

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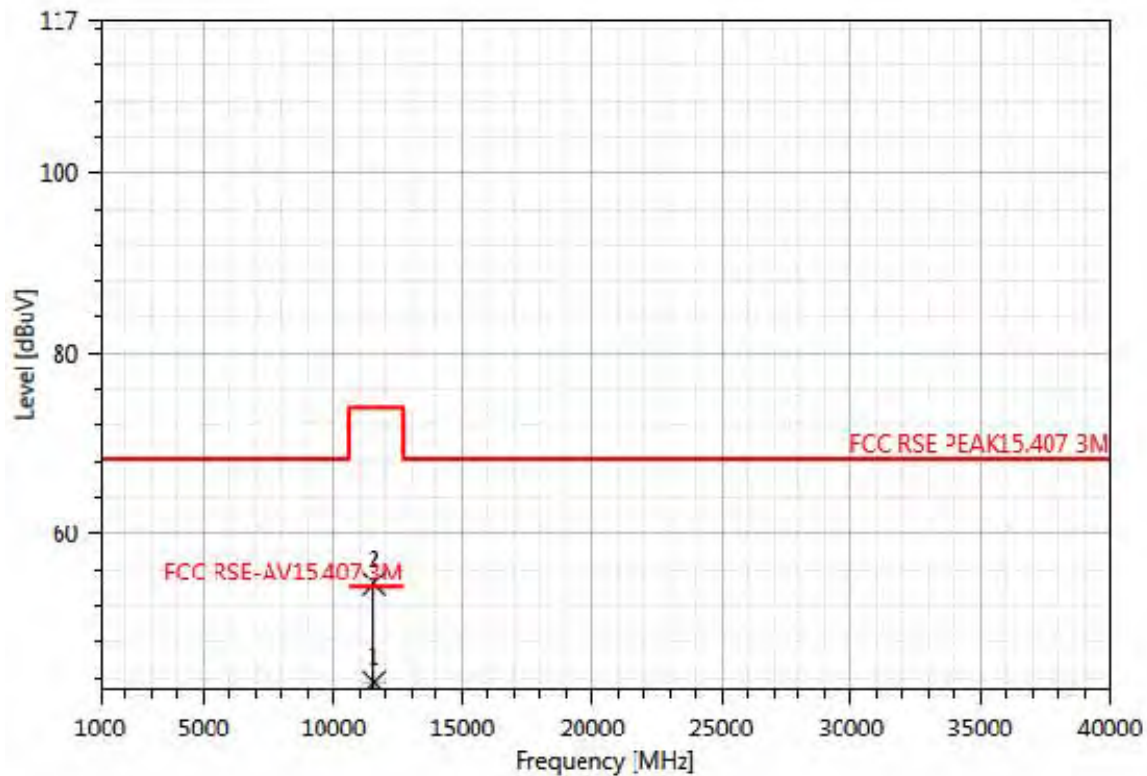
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B4 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5785 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 11570.00 | H | Average | 43.45 | 22.86 | 20.59 | 54.00 | -10.55 |
| 11570.00 | H | Peak | 54.39 | 33.80 | 20.59 | 74.00 | -19.61 |

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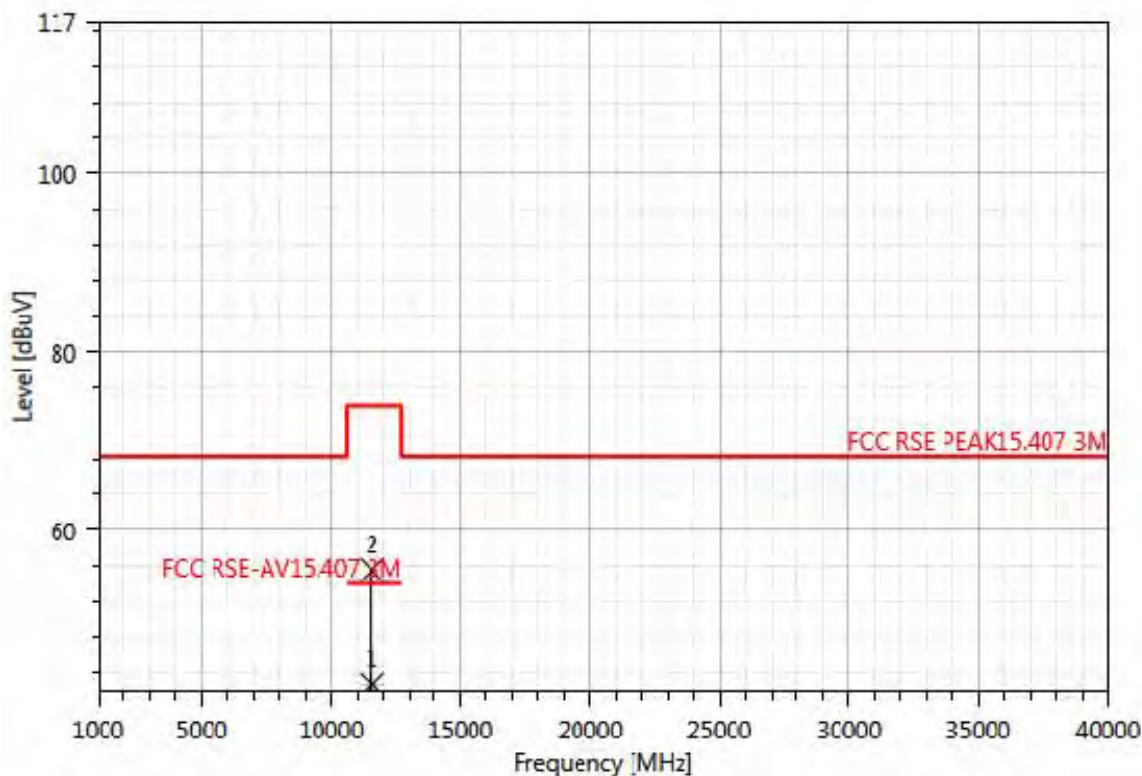
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B4 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5785 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 11570.00 | H | Average | 42.72 | 22.13 | 20.59 | 54.00 | -11.28 |
| 11570.00 | H | Peak | 55.56 | 34.97 | 20.59 | 74.00 | -18.44 |

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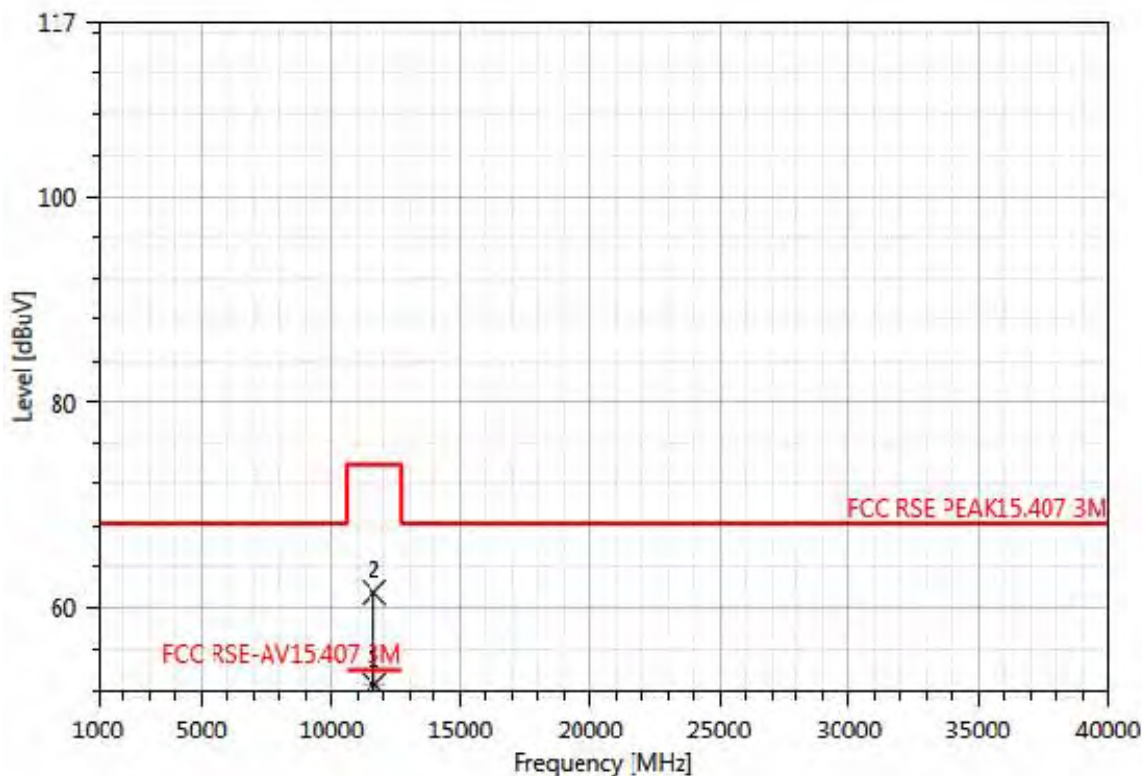
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B4 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5825 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 11650.00 | H | Average | 52.56 | 32.13 | 20.43 | 54.00 | -1.44 |
| 11650.00 | H | Peak | 61.45 | 41.01 | 20.43 | 74.00 | -12.55 |

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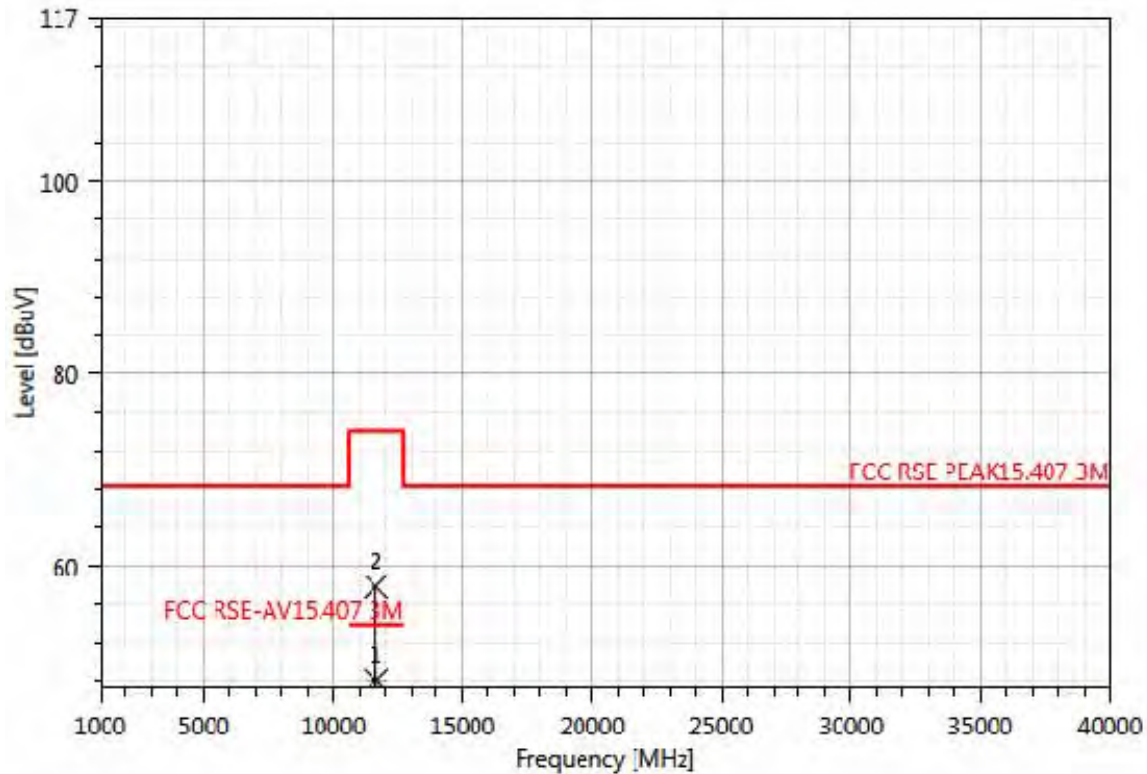
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B4 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5825 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 11650.00 | H | Average | 48.14 | 27.71 | 20.43 | 54.00 | -5.86 |
| 11650.00 | H | Peak | 57.87 | 37.44 | 20.43 | 74.00 | -16.13 |

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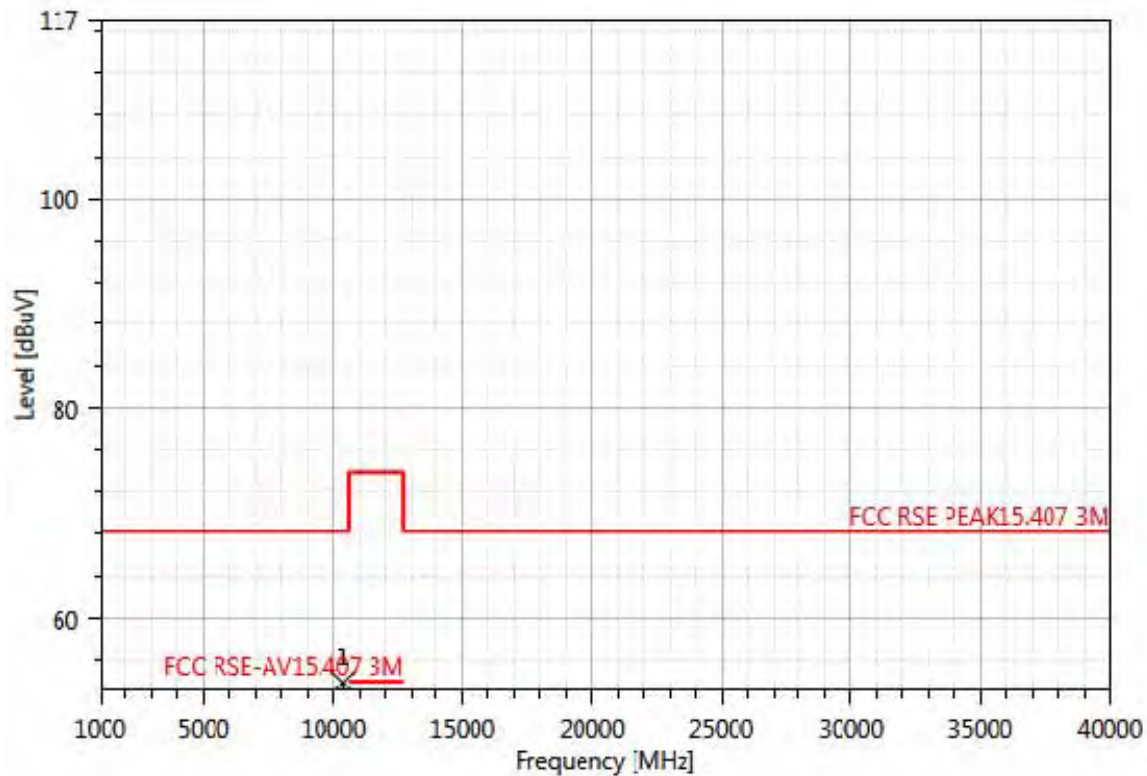
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n40B1 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5190 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 10380.00 | H | Peak | 53.89 | 35.77 | 18.12 | 68.30 | -14.41 |

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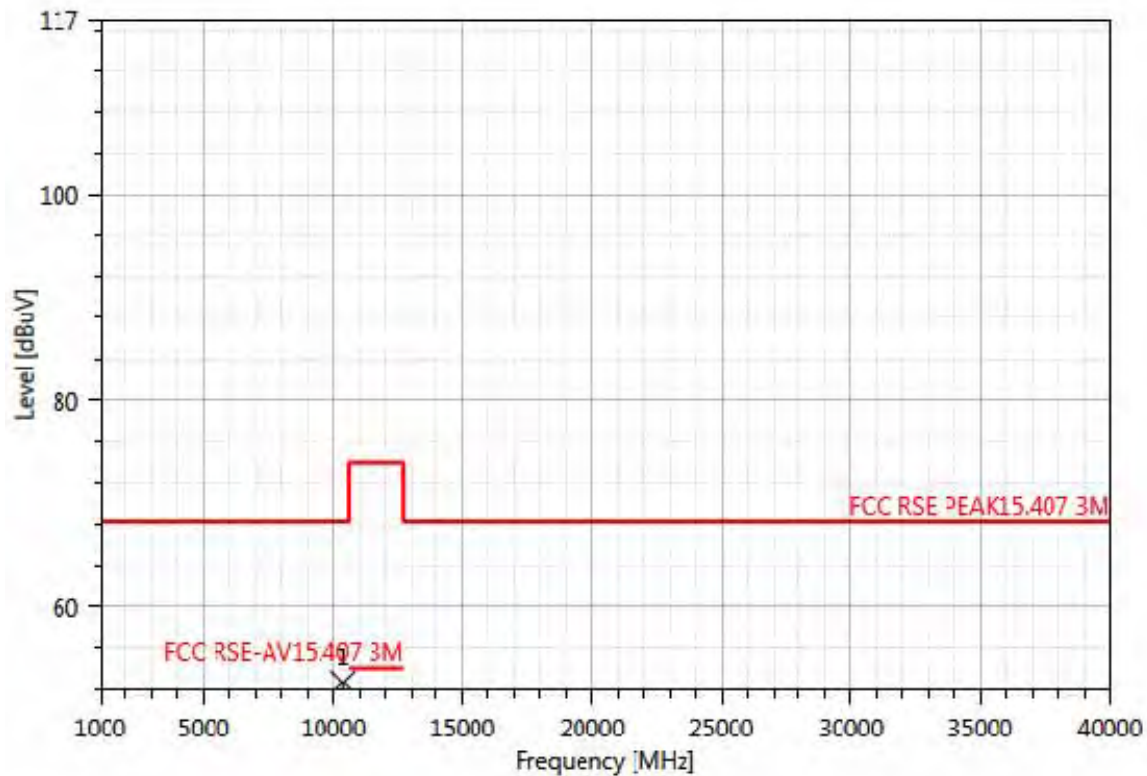
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n40B1 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5190 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 10380.00 | H | Peak | 52.59 | 34.46 | 18.12 | 68.30 | -15.71 |

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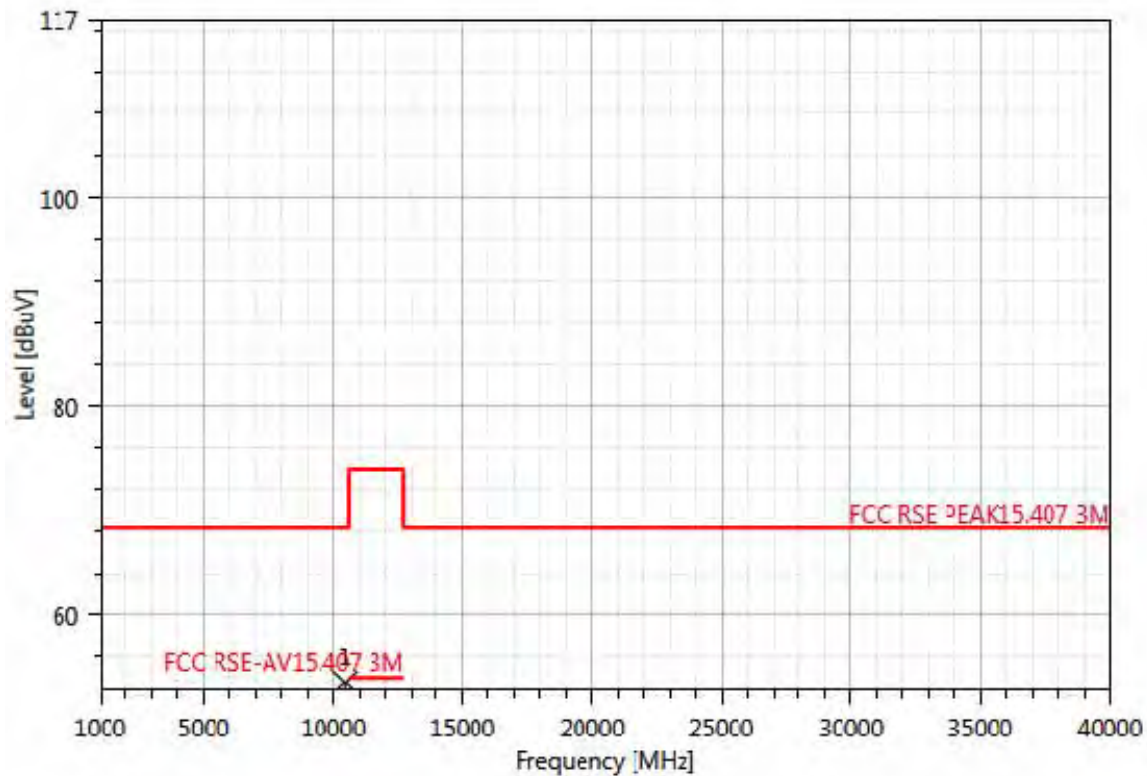
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n40B1 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5230 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 10460.00 | H | Peak | 53.52 | 34.98 | 18.54 | 68.30 | -14.78 |

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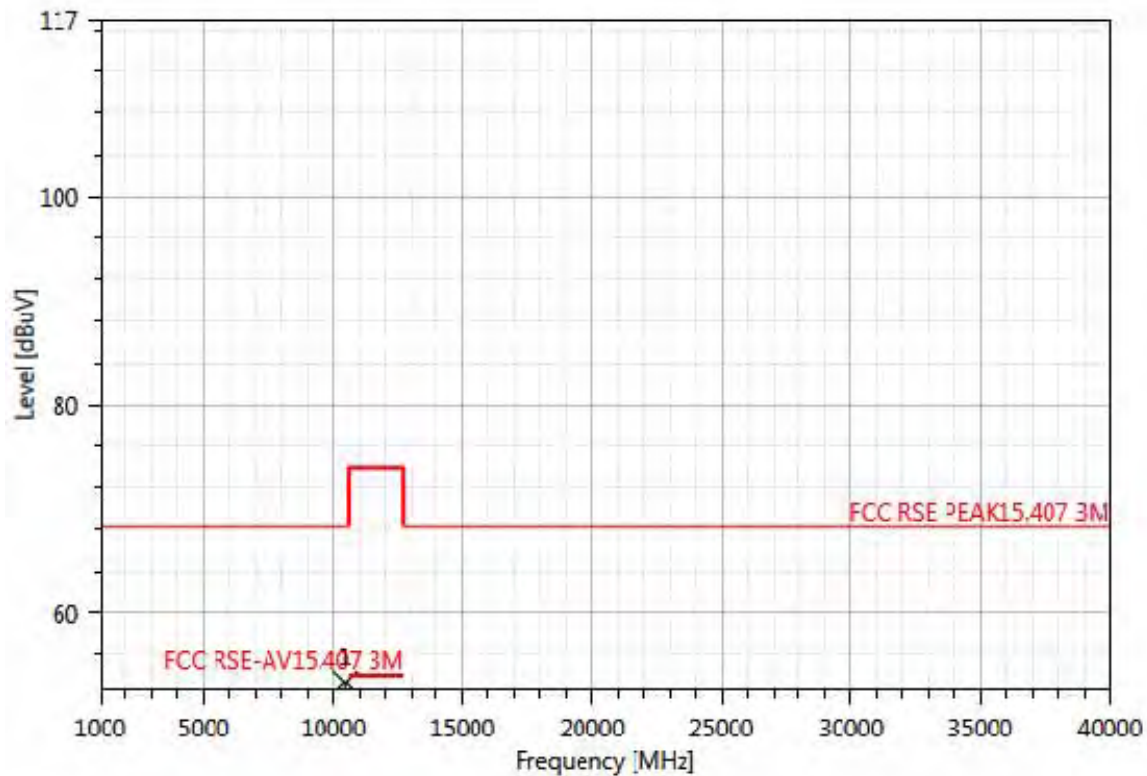
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n40B1 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5230 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 10460.00 | H | Peak | 53.28 | 34.74 | 18.54 | 68.30 | -15.02 |

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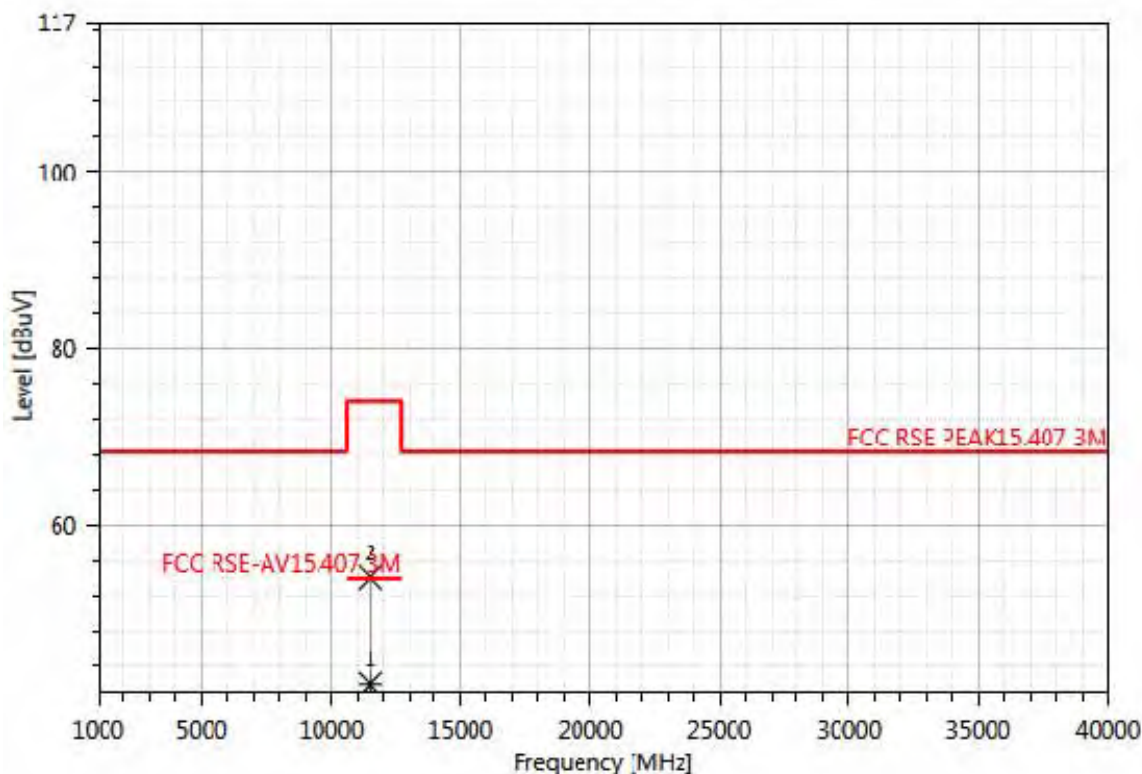
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n40B4 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5755 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor | Actual | Spectrum | Factor | Limit | Margin |
|----------|---------|----------|---------------|----------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | FS | | @ 3m | |
| | | QP/AV/PK | dBμV/m | dBμV/m | dB | dBμV/m | dB |
| 11510.00 | H | Average | 42.03 | 21.64 | 20.39 | 54.00 | -11.97 |
| 11510.00 | H | Peak | 54.10 | 33.72 | 20.39 | 74.00 | -19.90 |

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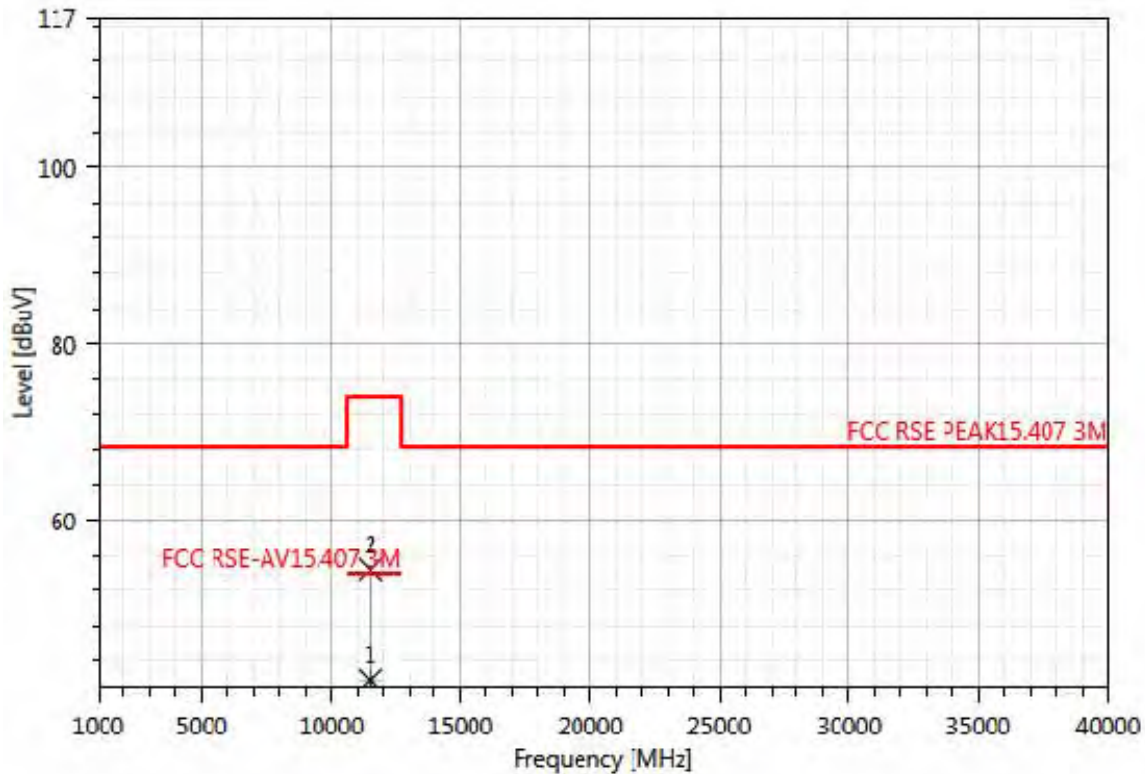
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n40B4 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5755 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 11510.00 | H | Average | 41.79 | 21.40 | 20.39 | 54.00 | -12.21 |
| 11510.00 | H | Peak | 54.35 | 33.96 | 20.39 | 74.00 | -19.65 |

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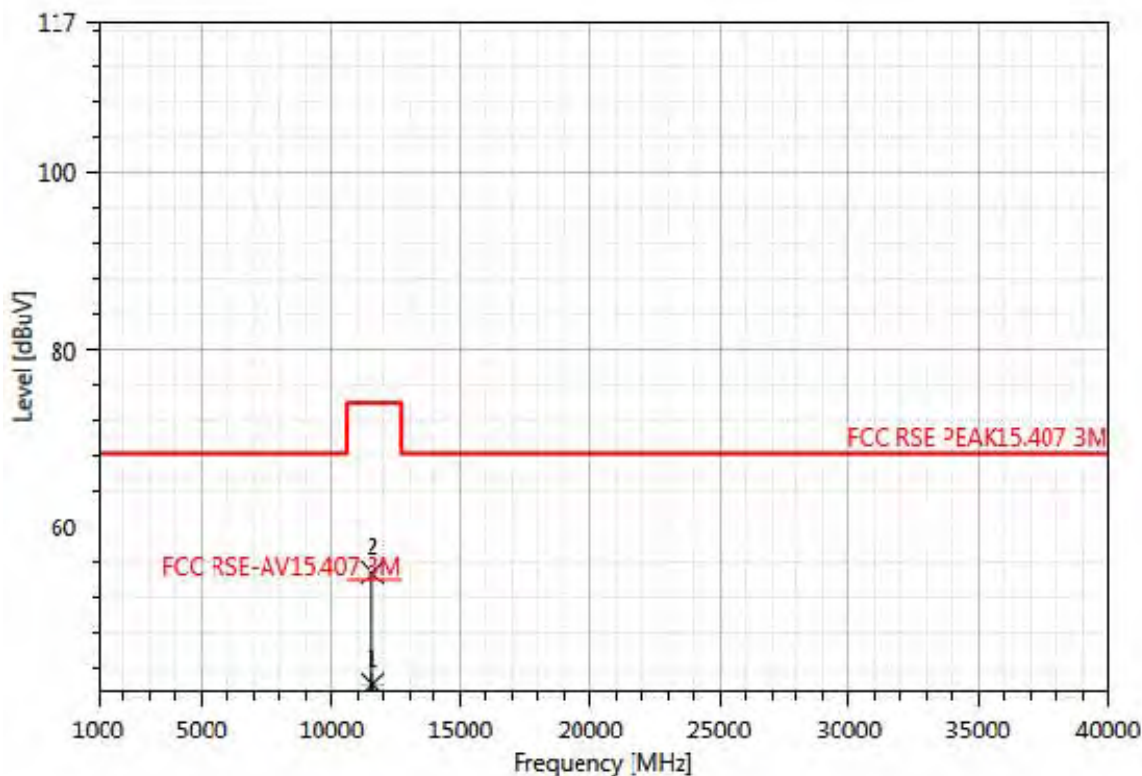
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| | | | |
|-------------------------|-------------|----------------------------|------------------|
| Operation Mode : | 802.11n40B4 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5795 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 11590.00 | H | Average | 42.20 | 21.77 | 20.43 | 54.00 | -11.80 |
| 11590.00 | H | Peak | 54.82 | 34.38 | 20.43 | 74.00 | -19.18 |

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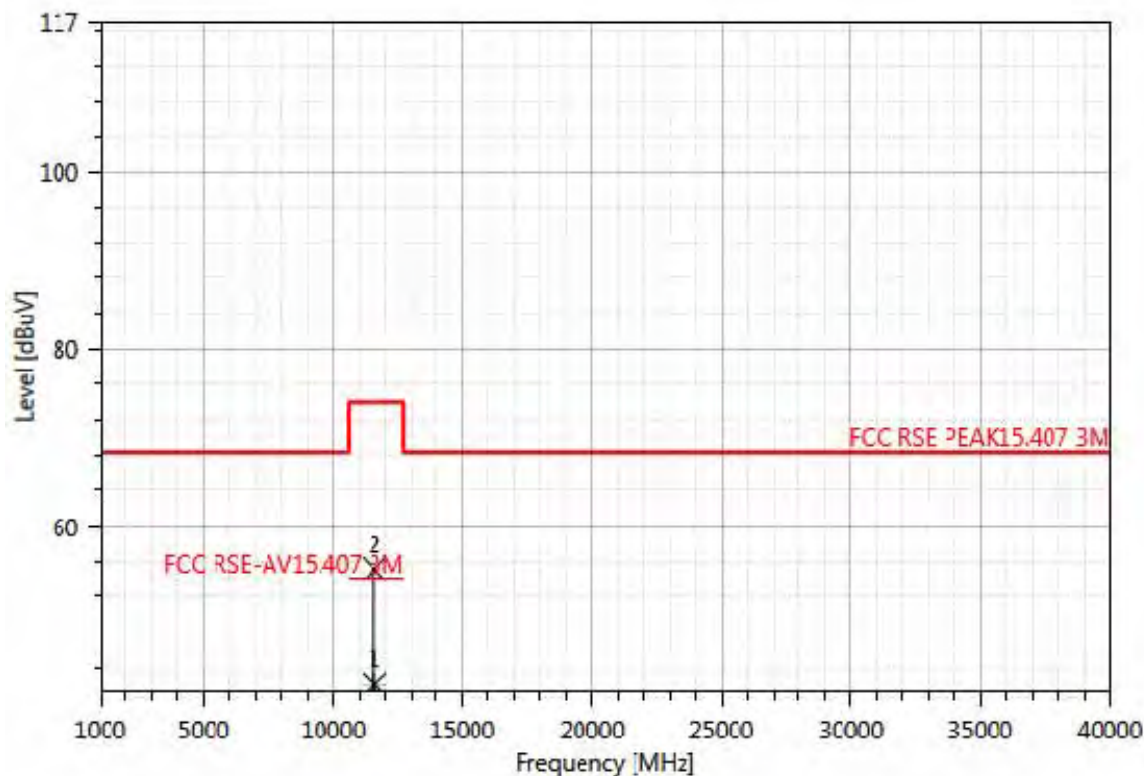
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Operation Mode : 802.11n40B4
 Fundamental Frequency : 5795 MHz
 Operation Band : Tx CH HIGH
 EUT Pol. : E2 Plane

Test Date : 07/06/2016
 Temp. / Humi. : 21 deg_C / 62 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



| Freq. | Note | Decetor | Actual | Spectrum | Factor | Limit | Margin |
|----------|---------|---------|---------------|----------|--------|-------|--------|
| MHz | F/H/E/S | Mode | Reading Level | FS | dB | @ 3m | dB |
| 11590.00 | H | Average | 42.06 | 21.63 | 20.43 | 54.00 | -11.94 |
| 11590.00 | H | Peak | 55.11 | 34.68 | 20.43 | 74.00 | -18.89 |

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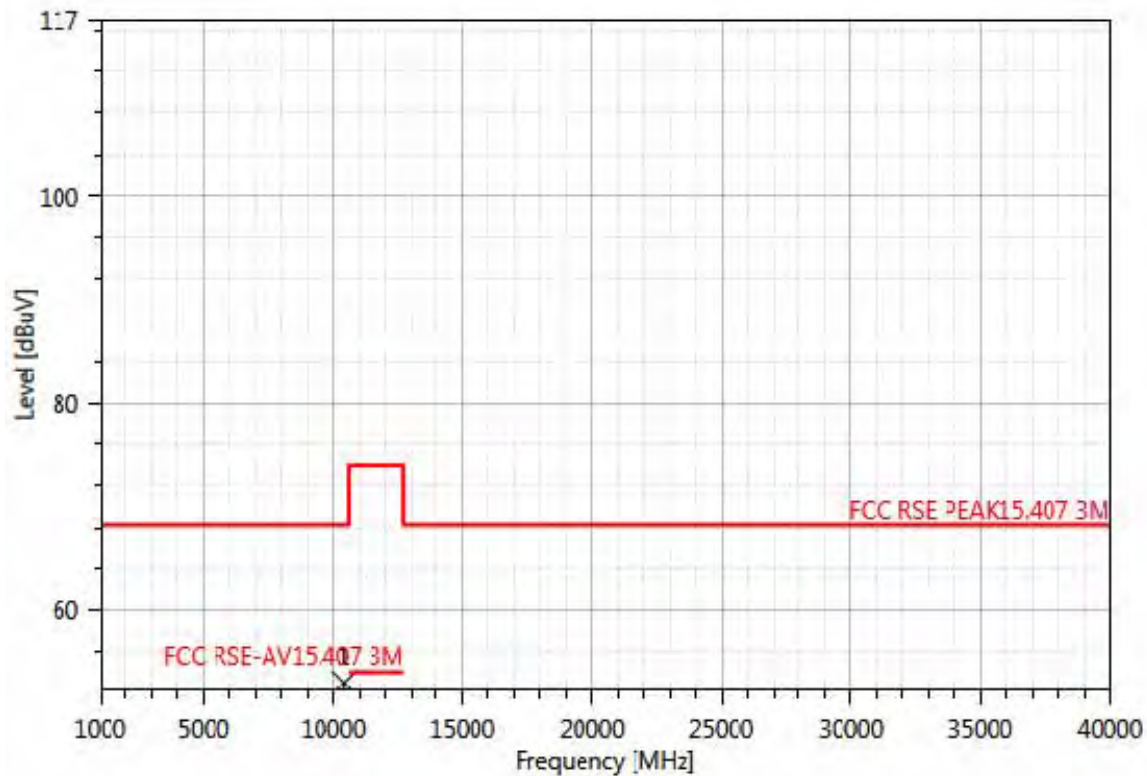
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

| | | | |
|-------------------------|--------------|----------------------------|------------------|
| Operation Mode : | 802.11ac80B1 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5210 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor | Actual | Spectrum | Factor | Limit | Margin |
|----------|---------|---------|---------------|----------|--------|-------|--------|
| MHz | F/H/E/S | Mode | Reading Level | FS | dB | @ 3m | dB |
| 10420.00 | H | Peak | 52.99 | 34.28 | 18.71 | 68.30 | -15.31 |

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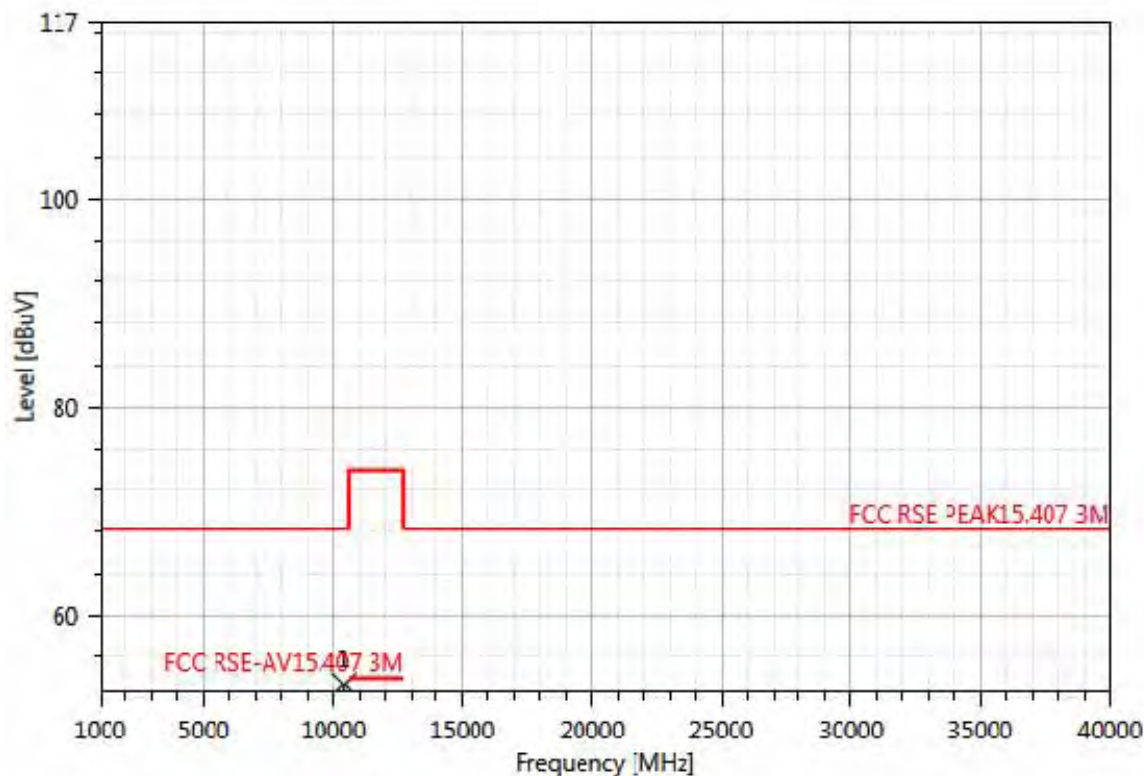
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| | | | |
|-------------------------|--------------|----------------------------|------------------|
| Operation Mode : | 802.11ac80B1 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5210 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 10420.00 | H | Peak | 53.36 | 34.64 | 18.71 | 68.30 | -14.94 |

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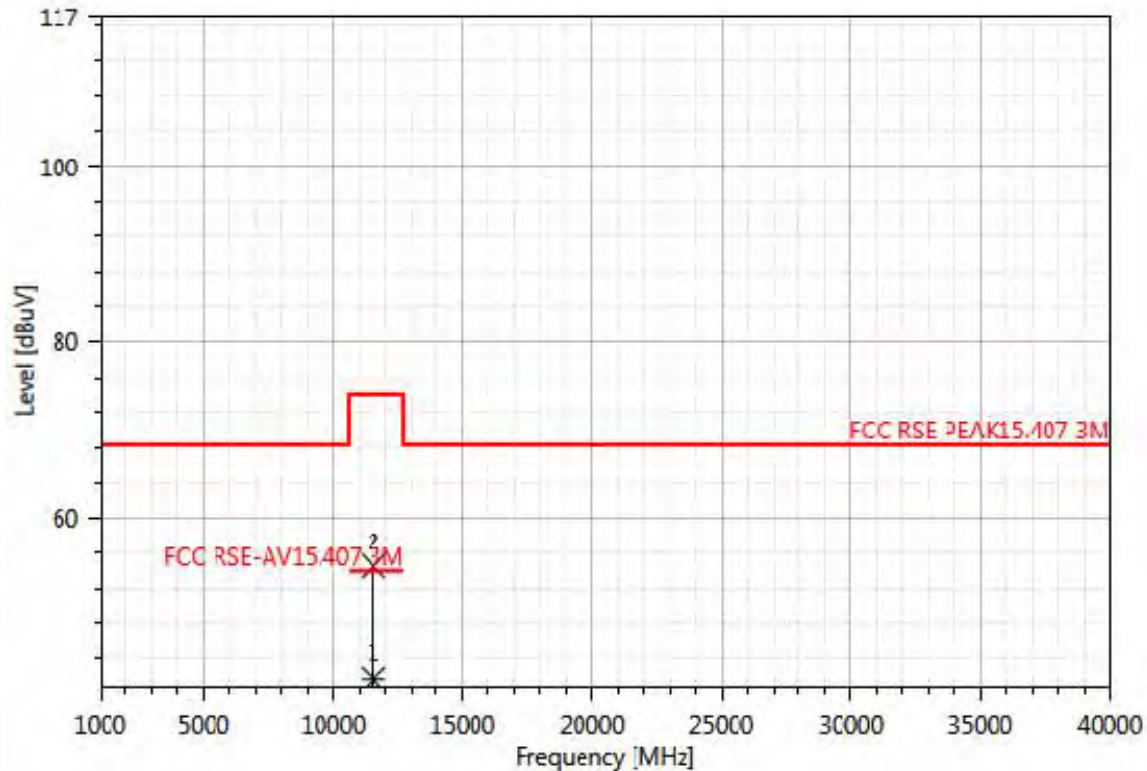
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

| | | | |
|-------------------------|--------------|----------------------------|------------------|
| Operation Mode : | 802.11ac80B4 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5775 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Kane |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 11550.00 | H | Average | 41.68 | 21.16 | 20.52 | 54.00 | -12.32 |
| 11550.00 | H | Peak | 54.54 | 34.02 | 20.52 | 74.00 | -19.46 |

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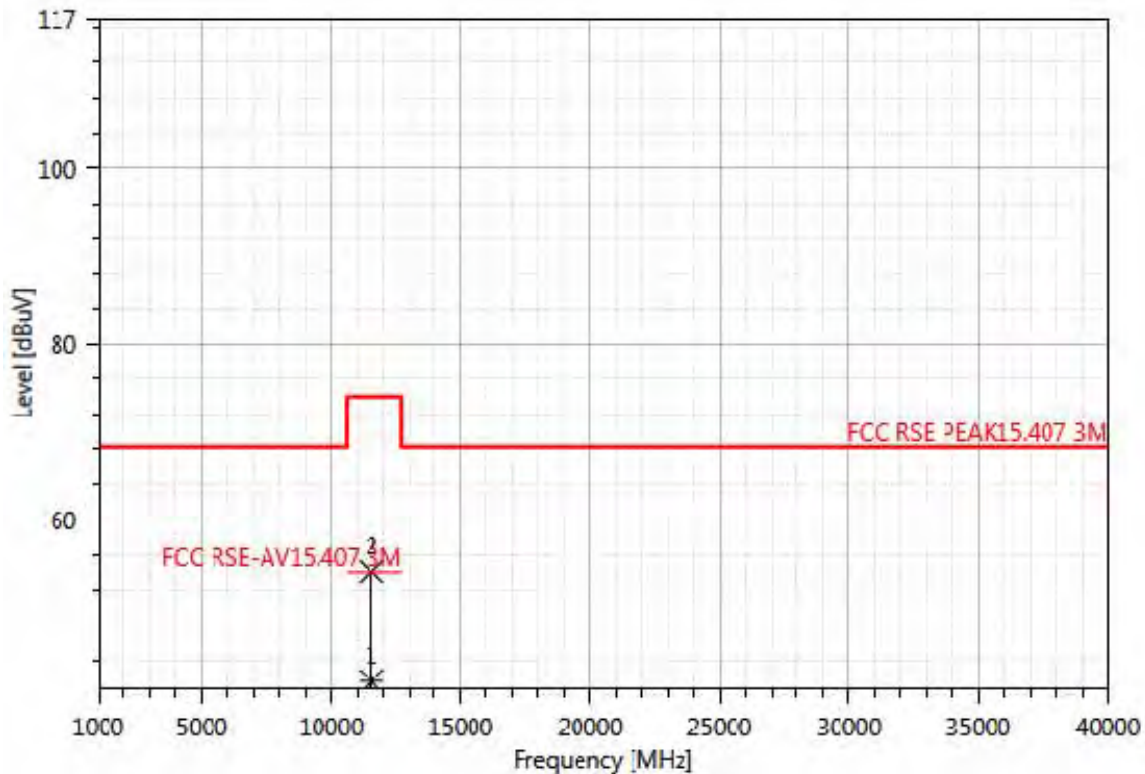
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Operation Mode : 802.11ac80B4 Test Date : 07/06/2016
Fundamental Frequency : 5775 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|----------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 11550.00 | H | Average | 41.61 | 21.09 | 20.52 | 54.00 | -12.39 |
| 11550.00 | H | Peak | 54.08 | 33.56 | 20.52 | 74.00 | -19.92 |

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Band edge falling to restricted band

802.11a mode

| | | | |
|-------------------------|-----------------|----------------------------|------------------|
| Operation Mode : | 802.11aB1 | Test Date : | 05/08/2016 |
| Fundamental Frequency : | 5180 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Bandedge CH LOW | Test Engineer : | Edward |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5149.36 | S | Average | 50.89 | 45.01 | 5.88 | 54.00 | -3.11 |
| 5149.36 | S | Peak | 71.20 | 65.32 | 5.88 | 74.00 | -2.80 |
| 5150.00 | E | Average | 51.12 | 45.24 | 5.88 | 54.00 | -2.88 |
| 5150.00 | E | Peak | 69.93 | 64.05 | 5.88 | 74.00 | -4.07 |

| | | | |
|-------------------------|-----------------|----------------------------|------------------|
| Operation Mode : | 802.11aB1 | Test Date : | 05/08/2016 |
| Fundamental Frequency : | 5180 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Bandedge CH LOW | Test Engineer : | Edward |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5150.00 | E | Average | 46.67 | 40.78 | 5.88 | 54.00 | -7.33 |
| 5150.00 | E | Peak | 63.35 | 57.47 | 5.88 | 74.00 | -10.65 |

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Operation Mode : 802.11aB4 Test Date : 05/08/2016
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Edward
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5725.00 | E | Peak | 85.59 | 79.00 | 6.59 | 122.23 | -36.64 |

Operation Mode : 802.11aB4 Test Date : 05/08/2016
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Edward
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5725.00 | E | Peak | 70.67 | 64.07 | 6.59 | 122.23 | -51.56 |

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Operation Mode : 802.11aB4 Test Date : 05/08/2016
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5850.00 | E | Peak | 74.80 | 67.52 | 7.28 | 122.23 | -47.43 |

Operation Mode : 802.11aB4 Test Date : 05/08/2016
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5850.00 | E | Peak | 66.19 | 58.91 | 7.28 | 122.23 | -56.04 |

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CDD Mode:

802.11nHT20 mode

| | | | |
|-------------------------|-----------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B1 | Test Date : | 05/08/2016 |
| Fundamental Frequency : | 5180 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Bandedge CH LOW | Test Engineer : | Edward |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5150.00 | E | Average | 49.63 | 43.75 | 5.88 | 54.00 | -4.37 |
| 5150.00 | E | Peak | 70.50 | 64.61 | 5.88 | 74.00 | -3.50 |

| | | | |
|-------------------------|-----------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B1 | Test Date : | 05/08/2016 |
| Fundamental Frequency : | 5180 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Bandedge CH LOW | Test Engineer : | Edward |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5150.00 | E | Average | 46.90 | 41.02 | 5.88 | 54.00 | -7.10 |
| 5150.00 | E | Peak | 65.05 | 59.17 | 5.88 | 74.00 | -8.95 |

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| | | | |
|-------------------------|-----------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B4 | Test Date : | 05/08/2016 |
| Fundamental Frequency : | 5745 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Bandedge CH LOW | Test Engineer : | Edward |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5725.00 | E | Peak | 73.82 | 67.23 | 6.59 | 122.23 | -48.41 |

| | | | |
|-------------------------|-----------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B4 | Test Date : | 05/08/2016 |
| Fundamental Frequency : | 5745 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Bandedge CH LOW | Test Engineer : | Edward |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5725.00 | E | Peak | 75.57 | 68.98 | 6.59 | 122.23 | -46.66 |

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| | | | |
|-------------------------|------------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B4 | Test Date : | 05/08/2016 |
| Fundamental Frequency : | 5825 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Bandedge CH HIGH | Test Engineer : | Edward |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5850.00 | E | Peak | 59.15 | 51.87 | 7.28 | 122.23 | -63.08 |

| | | | |
|-------------------------|------------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B4 | Test Date : | 05/08/2016 |
| Fundamental Frequency : | 5825 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Bandedge CH HIGH | Test Engineer : | Edward |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5850.00 | E | Peak | 60.12 | 52.84 | 7.28 | 122.23 | -62.11 |

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802.11n40 HT mode

Operation Mode : 802.11n40B1 Test Date : 05/08/2016
 Fundamental Frequency : 5190 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Edward
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5148.52 | S | Average | 45.84 | 39.95 | 5.89 | 54.00 | -8.16 |
| 5148.52 | S | Peak | 70.63 | 64.74 | 5.89 | 74.00 | -3.37 |
| 5150.00 | E | Average | 46.00 | 40.12 | 5.88 | 54.00 | -8.00 |
| 5150.00 | E | Peak | 66.39 | 60.51 | 5.88 | 74.00 | -7.61 |

Operation Mode : 802.11n40B1 Test Date : 05/08/2016
 Fundamental Frequency : 5190 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Edward
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5150.00 | E | Average | 44.04 | 38.16 | 5.88 | 54.00 | -9.96 |
| 5150.00 | E | Peak | 61.47 | 55.58 | 5.88 | 74.00 | -12.53 |

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Operation Mode : 802.11n40B4 Test Date : 05/08/2016
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Edward
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5725.00 | E | Peak | 83.99 | 77.40 | 6.59 | 122.23 | -38.24 |

Operation Mode : 802.11n40B4 Test Date : 05/08/2016
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Edward
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5725.00 | E | Peak | 76.69 | 70.10 | 6.59 | 122.23 | -45.54 |

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| | | | |
|-------------------------|------------------|----------------------------|------------------|
| Operation Mode : | 802.11n40B4 | Test Date : | 05/08/2016 |
| Fundamental Frequency : | 5795 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Bandedge CH HIGH | Test Engineer : | Edward |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5850.00 | E | Peak | 67.27 | 59.99 | 7.28 | 122.23 | -54.96 |

| | | | |
|-------------------------|------------------|----------------------------|------------------|
| Operation Mode : | 802.11n40B4 | Test Date : | 05/08/2016 |
| Fundamental Frequency : | 5795 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Bandedge CH HIGH | Test Engineer : | Edward |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5850.00 | E | Peak | 62.35 | 55.07 | 7.28 | 122.23 | -59.88 |

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802.11ac80 VHT mode

| | | | |
|-------------------------|-----------------|----------------------------|------------------|
| Operation Mode : | 802.11ac80B1 | Test Date : | 05/08/2016 |
| Fundamental Frequency : | 5210 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Bandedge CH LOW | Test Engineer : | Edward |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5150.00 | E | Average | 49.88 | 44.00 | 5.88 | 54.00 | -4.12 |
| 5150.00 | E | Peak | 71.56 | 65.68 | 5.88 | 74.00 | -2.44 |

| | | | |
|-------------------------|-----------------|----------------------------|------------------|
| Operation Mode : | 802.11ac80B1 | Test Date : | 05/08/2016 |
| Fundamental Frequency : | 5210 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Bandedge CH LOW | Test Engineer : | Edward |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5150.00 | E | Average | 47.81 | 41.93 | 5.88 | 54.00 | -6.19 |
| 5150.00 | E | Peak | 65.32 | 59.44 | 5.88 | 74.00 | -8.68 |

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Operation Mode : 802.11ac80B4 Test Date : 05/08/2016
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Edward
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5725.00 | E | Peak | 79.57 | 72.98 | 6.59 | 122.23 | -42.66 |

Operation Mode : 802.11ac80B4 Test Date : 05/08/2016
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Edward
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5725.00 | E | Peak | 76.83 | 70.24 | 6.59 | 122.23 | -45.40 |

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Operation Mode : 802.11ac80B4 Test Date : 05/08/2016
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5850.00 | E | Peak | 83.99 | 76.70 | 7.28 | 122.23 | -38.24 |

Operation Mode : 802.11ac80B4 Test Date : 05/08/2016
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5850.00 | E | Peak | 77.70 | 70.42 | 7.28 | 122.23 | -44.53 |

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Beam Forming Mode:

802.11nHT20 mode

| | | | |
|-------------------------|-----------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B1 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5180 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Bandedge CH LOW | Test Engineer : | Edward |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5150.00 | S | Average | 46.90 | 41.02 | 5.88 | 54.00 | -7.10 |
| 5150.00 | S | Peak | 60.06 | 54.18 | 5.88 | 74.00 | -13.94 |

| | | | |
|-------------------------|-----------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B1 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5180 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Bandedge CH LOW | Test Engineer : | Edward |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5150.00 | S | Average | 44.06 | 38.18 | 5.88 | 54.00 | -9.94 |
| 5150.00 | S | Peak | 56.13 | 50.25 | 5.88 | 74.00 | -17.87 |

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| | | | |
|-------------------------|-----------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B4 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5745 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Bandedge CH LOW | Test Engineer : | Edward |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5725.00 | S | Peak | 80.20 | 73.61 | 6.59 | 122.23 | -42.03 |

| | | | |
|-------------------------|-----------------|----------------------------|------------------|
| Operation Mode : | 802.11n20B4 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5745 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Bandedge CH LOW | Test Engineer : | Edward |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5725.00 | S | Peak | 75.21 | 68.62 | 6.59 | 122.23 | -47.02 |

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Operation Mode : 802.11n20B4 Test Date : 07/06/2016
Fundamental Frequency : 5825 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5850.00 | S | Peak | 71.71 | 64.43 | 7.28 | 122.23 | -50.52 |

Operation Mode : 802.11n20B4 Test Date : 07/06/2016
Fundamental Frequency : 5825 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5850.00 | S | Peak | 69.94 | 62.65 | 7.28 | 122.23 | -52.29 |

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802.11n HT40 mode

| | | | |
|-------------------------|-----------------|----------------------------|------------------|
| Operation Mode : | 802.11n40B1 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5190 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Bandedge CH LOW | Test Engineer : | Edward |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5143.60 | S | Average | 48.77 | 42.87 | 5.90 | 54.00 | -5.23 |
| 5143.60 | S | Peak | 68.58 | 62.67 | 5.90 | 74.00 | -5.42 |
| 5150.00 | S | Average | 50.34 | 44.46 | 5.88 | 54.00 | -3.66 |
| 5150.00 | S | Peak | 65.16 | 59.28 | 5.88 | 74.00 | -8.84 |

| | | | |
|-------------------------|-----------------|----------------------------|------------------|
| Operation Mode : | 802.11n40B1 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5190 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Bandedge CH LOW | Test Engineer : | Edward |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5150.00 | S | Average | 45.58 | 39.69 | 5.88 | 54.00 | -8.42 |
| 5150.00 | S | Peak | 58.36 | 52.48 | 5.88 | 74.00 | -15.64 |

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| | | | |
|-------------------------|-----------------|----------------------------|------------------|
| Operation Mode : | 802.11n40B4 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5755 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Bandedge CH LOW | Test Engineer : | Edward |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5725.00 | S | Peak | 68.74 | 62.15 | 6.59 | 122.23 | -53.49 |

| | | | |
|-------------------------|-----------------|----------------------------|------------------|
| Operation Mode : | 802.11n40B4 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5755 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Bandedge CH LOW | Test Engineer : | Edward |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5725.00 | S | Peak | 62.26 | 55.67 | 6.59 | 122.23 | -59.97 |

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Operation Mode : 802.11n40B4 Test Date : 07/06/2016
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5850.00 | S | Peak | 60.07 | 52.78 | 7.28 | 122.23 | -62.16 |

Operation Mode : 802.11n40B4 Test Date : 07/06/2016
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|--------------|----------------------|-------------|--------|------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5850.00 | S | Peak | 58.23 | 50.95 | 7.28 | 122.23 | -64.00 |

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802.11ac80 VHT mode

| | | | |
|-------------------------|-----------------|----------------------------|------------------|
| Operation Mode : | 802.11ac80B1 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5210 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Bandedge CH LOW | Test Engineer : | Edward |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5150.00 | S | Average | 44.40 | 38.52 | 5.88 | 54.00 | -9.60 |
| 5150.00 | S | Peak | 56.15 | 50.27 | 5.88 | 74.00 | -17.85 |

| | | | |
|-------------------------|-----------------|----------------------------|------------------|
| Operation Mode : | 802.11ac80B1 | Test Date : | 07/06/2016 |
| Fundamental Frequency : | 5210 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Bandedge CH LOW | Test Engineer : | Edward |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5150.00 | S | Average | 43.55 | 37.66 | 5.88 | 54.00 | -10.45 |
| 5150.00 | S | Peak | 56.52 | 50.64 | 5.88 | 74.00 | -17.48 |

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Operation Mode : 802.11ac80B4 Test Date : 07/06/2016
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Edward
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5725.00 | S | Peak | 60.78 | 54.18 | 6.59 | 122.23 | -61.45 |

Operation Mode : 802.11ac80B4 Test Date : 07/06/2016
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Edward
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5725.00 | S | Peak | 56.76 | 50.17 | 6.59 | 122.23 | -65.47 |

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Operation Mode : 802.11ac80B4 Test Date : 07/06/2016
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5850.00 | S | Peak | 59.30 | 52.01 | 7.28 | 122.23 | -62.93 |

Operation Mode : 802.11ac80B4 Test Date : 07/06/2016
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. | Note | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit @ 3m | Margin |
|---------|---------|-----------------|-------------------------|----------------|--------|---------------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBμV/m | dBμV/m | dB | dBuV/m | dB |
| 5850.00 | S | Peak | 57.12 | 49.84 | 7.28 | 122.23 | -65.11 |

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12. TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

12.2 Result

No non-compliance noted:

Refer to the theory of operation.

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13. FREQUENCY STABILITY

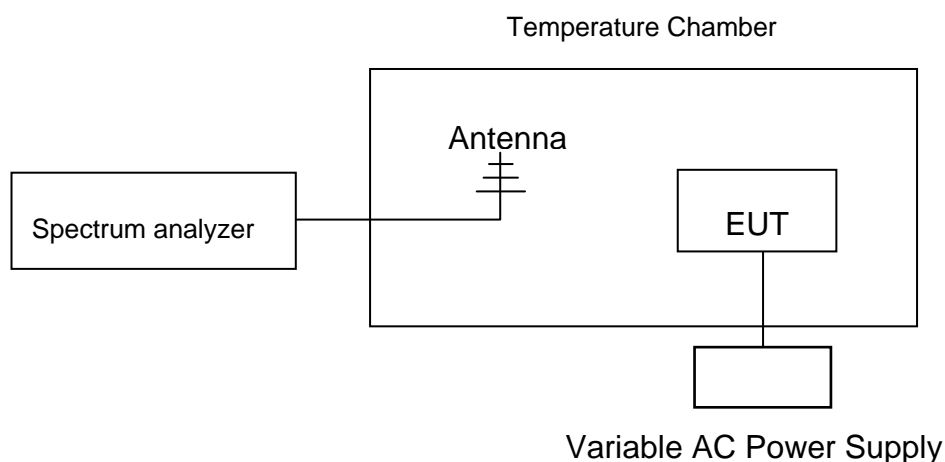
13.1 Standard Applicable

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

13.2 Measurement Procedure

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

13.3 Test SET-UP



13.4 Measurement Equipment Used:

| SGS Conducted Room | | | | | |
|-----------------------|--------------|-----------|---------------|------------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| EXA Spectrum Analyzer | Agilent | N9030A | MY53120760 | 02/26/2016 | 02/25/2017 |
| DC Power Supply | Agilent | E3640A | MY52410006 | 11/05/2015 | 11/04/2016 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 05/17/2016 | 05/16/2017 |

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13.5 Measurement Result

| | | | |
|----------------|----------|-----------|------------|
| Operation Mode | 802.11 a | Test Date | 2016.07.21 |
| Temperature | :17 | Test By | Cooper |
| Humidity | :65 % | | |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10 | 13.2V | 36 | 5180 | 5,179.89502 | 0.00002027 |
| | | 44 | 5220 | 5,219.96997 | 0.00000575 |
| | | 48 | 5240 | 5,239.95483 | 0.00000862 |
| | | 149 | 5745 | 5,744.98486 | 0.00000263 |
| | | 157 | 5785 | 5,784.96997 | 0.00000519 |
| | | 165 | 5825 | 5,825.00000 | 0.00000000 |
| | 10.8V | 36 | 5180 | 5,179.92505 | 0.00001447 |
| | | 44 | 5220 | 5,219.97022 | 0.00000571 |
| | | 48 | 5240 | 5,239.98511 | 0.00000284 |
| | | 149 | 5745 | 5,744.96997 | 0.00000523 |
| | | 157 | 5785 | 5,784.95508 | 0.00000777 |
| | | 165 | 5825 | 5,824.97022 | 0.00000511 |

| | | | | | |
|----|-----|-----|------|-------------|------------|
| 25 | 12V | 36 | 5180 | 5,180.00000 | 0.00000000 |
| | | 44 | 5220 | 5,219.98511 | 0.00000285 |
| | | 48 | 5240 | 5,239.98486 | 0.00000289 |
| | | 149 | 5745 | 5,744.95508 | 0.00000782 |
| | | 157 | 5785 | 5,784.98511 | 0.00000257 |
| | | 165 | 5825 | 5,824.98511 | 0.00000256 |

| | | | | | |
|----|-------|-----|------|-------------|------------|
| 55 | 13.2V | 36 | 5180 | 5,179.96997 | 0.00000580 |
| | | 44 | 5220 | 5,219.93994 | 0.00001151 |
| | | 48 | 5240 | 5,239.98486 | 0.00000289 |
| | | 149 | 5745 | 5,744.96997 | 0.00000523 |
| | | 157 | 5785 | 5,784.98511 | 0.00000257 |
| | | 165 | 5825 | 5,824.95508 | 0.00000771 |
| | 10.8V | 36 | 5180 | 5,179.97022 | 0.00000575 |
| | | 44 | 5220 | 5,219.98511 | 0.00000285 |
| | | 48 | 5240 | 5,239.98511 | 0.00000284 |
| | | 149 | 5745 | 5,744.98511 | 0.00000259 |
| | | 157 | 5785 | 5,784.98511 | 0.00000257 |
| | | 165 | 5825 | 5,824.98511 | 0.00000256 |

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| | | | |
|----------------|---------------|-----------|------------|
| Operation Mode | 802.11 n_HT40 | Test Date | 2016.07.21 |
| Temperature | :17 | Test By | Cooper |
| Humidity | :65 % | | |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10 | 13.2V | 38 | 5190 | 5,190.00000 | 0.00000000 |
| | | 46 | 5230 | 5,229.84985 | 0.00002871 |
| | | 151 | 5755 | 5,754.94995 | 0.00000870 |
| | | 159 | 5795 | 5,795.00000 | 0.00000000 |
| | 10.8V | 38 | 5190 | 5,189.97510 | 0.00000480 |
| | | 46 | 5230 | 5,229.97485 | 0.00000481 |
| | | 151 | 5755 | 5,754.77490 | 0.00003911 |
| | | 159 | 5795 | 5,794.82495 | 0.00003021 |

| | | | | | |
|----|-------|-----|------|-------------|------------|
| 25 | 12V | 38 | 5190 | 5,189.97485 | 0.00000485 |
| | | 46 | 5230 | 5,229.92505 | 0.00001433 |
| | | 151 | 5755 | 5,754.89990 | 0.00001739 |
| | | 159 | 5795 | 5,795.00000 | 0.00000000 |
| 55 | 13.2V | 38 | 5190 | 5,189.97485 | 0.00000485 |
| | | 46 | 5230 | 5,229.97485 | 0.00000481 |
| | | 151 | 5755 | 5,754.77490 | 0.00003911 |
| | | 159 | 5795 | 5,794.84985 | 0.00002591 |
| | 10.8V | 38 | 5190 | 5,189.97510 | 0.00000480 |
| | | 46 | 5230 | 5,229.85010 | 0.00002866 |
| | | 151 | 5755 | 5,754.87500 | 0.00002172 |
| | | 159 | 5795 | 5,795.00000 | 0.00000000 |

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| | | | |
|----------------|-----------------|-----------|------------|
| Operation Mode | 802.11 ac_VHT80 | Test Date | 2016.07.21 |
| Temperature | :17 | Test By | Cooper |
| Humidity | :65 % | | |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10 | 13.2V | 42 | 5210 | 5,209.84985 | 0.00002882 |
| | | 155 | 5775 | 5,774.69995 | 0.00005196 |
| | 10.8V | 42 | 5210 | 5,209.69995 | 0.00005759 |
| | | 155 | 5775 | 5,774.04981 | 0.00016454 |
| 25 | 12V | 42 | 5210 | 5,209.84985 | 0.00002882 |
| | | 155 | 5775 | 5,774.64990 | 0.00006062 |
| 55 | 13.2V | 42 | 5210 | 5,209.94995 | 0.00000961 |
| | | 155 | 5775 | 5,774.94995 | 0.00000867 |
| | 10.8V | 42 | 5210 | 5,209.04981 | 0.00018238 |
| | | 155 | 5775 | 5,773.59985 | 0.00024245 |

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14. ANTENNA REQUIREMENT

14.1 Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

14.2 Antenna Connected Construction

PCB antenna designs are used.

The antenna is designed with permanent attached and no consideration of replacement. Please see EUT photo and antenna spec. for details.

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15. MAXIMUM PERMISSIBLE EXPOSURE (MPE)

15.1 Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1093 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm ²) | Averaging Time (minute) |
|---|-------------------------------|-------------------------------|-------------------------------------|-------------------------|
| Limits for General Population/Uncontrolled Exposure | | | | |
| 0.3-1.34 | 614 | 1.63 | *(100) | 30 |
| 1.34-30 | 824/f | 2.19/f | *(180/f ²) | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | / | / | F/1500 | 30 |
| 1500-15000 | / | / | 1.0 | 30 |

F = frequency in MHz

* = Plane-wave equipment power density

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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802.11a Max. output power

802.11a_MIMO

| CH | Frequency (MHz) | Data Rate | AVERAGE POWER (dBm) | | | | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|---------------------|-------|-------|-------|-------------------|------------------|----------------------|--------|
| | | | CH 0 | CH 1 | CH 2 | CH3 | | | | |
| 36 | 5180 | 6 | 11.68 | 12.06 | 11.07 | 11.41 | 17.59 | 57.422 | 23.98 | PASS |
| 44 | 5220 | 6 | 12.14 | 12.42 | 11.62 | 12.14 | 18.11 | 64.716 | 23.98 | PASS |
| 48 | 5240 | 6 | 12.06 | 12.53 | 11.65 | 12.21 | 18.14 | 65.231 | 23.98 | PASS |
| 149 | 5745 | 6 | 12.22 | 13.04 | 11.64 | 11.89 | 18.25 | 66.850 | 30 | PASS |
| 157 | 5785 | 6 | 12.34 | 13.06 | 11.51 | 11.69 | 18.21 | 66.285 | 30 | PASS |
| 165 | 5825 | 6 | 12.45 | 13.02 | 11.28 | 11.42 | 18.12 | 64.919 | 30 | PASS |

MPE Prediction (802.11a 5150~5250)

| | | |
|---|--------------|-----------|
| Max. output power including tune-up tolerancel: | 18.14 | (dBm) |
| Max. output power including tune-up tolerancel: | 65.162839 | (mW) |
| Duty cycle: | 81.92 | (%) |
| Maximum Pav : | 53.381398 | (mW) |
| Peak Antenna gain (Maximum): | 5.26 | (dBi) |
| Peak Antenna gain (linear): | 3.3573761 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5240 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm2) |
| Power density at predication frequency at 20 (cm) | 0.036 | (mW/cm^2) |
| Measurement Result | | |
| The predicted power density level at 20 cm is 0.036 mW/cm2. | | |
| This is below the uncontrolled exposure limit of 1 mW/cm2 at 5240MHz. | | |

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MPE Prediction (802.11a 5725~5850)

| | | |
|---|-----------|-----------|
| Max. output power including tune-up tolerancel: | 18.25 | (dBm) |
| Max. output power including tune-up tolerancel: | 66.834392 | (mW) |
| Duty cycle: | 80.54 | (%) |
| Maximum Pav : | 53.828419 | (mW) |
| Peak Antenna gain (Maximum): | 5.26 | (dBi) |
| Peak Antenna gain (linear): | 3.3573761 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5825 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm2) |
| Power density at predication frequency at 20 (cm) | 0.036 | (mW/cm^2) |
| Measurement Result | | |
| The predicted power density level at 20 cm is 0.036 mW/cm2. | | |
| This is below the uncontrolled exposure limit of 1 mW/cm2 at 5825MHz. | | |

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802.11n_HT20M Max. output power

802.11n_HT20_MIMO

| CH | Frequency (MHz) | Data Rate | AVERAGE POWER (dBm) | | | | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|---------------------|-------|-------|-------|-------------------|------------------|----------------------|--------|
| | | | CH 0 | CH 1 | CH 2 | CH3 | | | | |
| 36 | 5180 | MCS24 | 12.55 | 12.23 | 12.21 | 12.74 | 18.46 | 70.127 | 21.71 | PASS |
| 44 | 5220 | MCS24 | 12.23 | 11.75 | 11.86 | 12.52 | 18.12 | 64.884 | 21.71 | PASS |
| 48 | 5240 | MCS24 | 12.25 | 11.85 | 11.93 | 12.56 | 18.18 | 65.725 | 21.71 | PASS |
| 149 | 5745 | MCS24 | 12.47 | 12.22 | 11.59 | 12.67 | 18.28 | 67.247 | 27.16 | PASS |
| 157 | 5785 | MCS24 | 12.25 | 12.35 | 11.71 | 12.58 | 18.25 | 66.906 | 27.16 | PASS |
| 165 | 5825 | MCS24 | 12.3 | 12.26 | 11.75 | 12.42 | 18.21 | 66.230 | 27.16 | PASS |

MPE Prediction (802.11n_HT20 5150~5250)

MIMO gain= $G+(10 \log N)= 5.26+3.01= 8.27\text{dBm}$

| | | |
|---|--------------|-----------------------|
| Max. output power including tune-up tolerancel: | 18.46 | (dBm) |
| Max. output power including tune-up tolerancel: | 70.14553 | (mW) |
| Duty cycle: | 80.54 | (%) |
| Maximum Pav : | 56.49521 | (mW) |
| Peak Antenna gain (Maximum): | 8.27 | (dBi) |
| Peak Antenna gain (linear): | 6.7142885 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5180 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.076 | (mW/cm ²) |
| Measurement Result | | |
| The predicted power density level at 20 cm is 0.076 mW/cm ² . | | |
| This is below the uncontrolled exposure limit of 1 mW/cm ² at 5180MHz. | | |

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MPE Prediction (802.11n_HT20 5725~5850)

MIMO gain= $G+(10 \log N)= 5.83+3.01= 8.84\text{dBm}$

| | | |
|---|-----------|-----------|
| Max. output power including tune-up tolerancel: | 8.00 | (dBm) |
| Max. output power including tune-up tolerancel: | 6.3095734 | (mW) |
| Duty cycle: | 80.54 | (%) |
| Maximum Pav : | 5.0817305 | (mW) |
| Peak Antenna gain (Maximum): | 8.84 | (dBi) |
| Peak Antenna gain (linear): | 7.6559661 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5745 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm2) |
| Power density at predication frequency at 20 (cm) | 0.008 | (mW/cm^2) |

Measurement Result

The predicted power density level at 20 cm is 0.008 mW/cm2.

This is below the uncontrolled exposure limit of 1 mW/cm2 at 5745MHz.

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802.11n_HT40M Max. output power

802.11n_HT40_MIMO

| CH | Frequency (MHz) | Data Rate | AVERAGE POWER (dBm) | | | | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|---------------------|-------|-------|-------|-------------------|------------------|----------------------|--------|
| | | | CH 0 | CH 1 | CH 2 | CH 3 | | | | |
| 38 | 5190 | MCS24 | 12.56 | 11.91 | 12.02 | 12.84 | 18.37 | 68.707 | 21.71 | PASS |
| 46 | 5230 | MCS24 | 12.62 | 12.14 | 12.09 | 12.88 | 18.47 | 70.239 | 21.71 | PASS |
| 151 | 5755 | MCS24 | 12.25 | 12.01 | 11.43 | 12.59 | 18.11 | 64.728 | 27.16 | PASS |
| 159 | 5795 | MCS24 | 12.1 | 12.17 | 11.42 | 12.5 | 18.09 | 64.350 | 27.16 | PASS |

MPE Prediction (802.11n_HT40 5150~5250)

MIMO gain= $G+(10 \log N)= 5.26+3.01= 8.27\text{dBm}$

| | | |
|---|--------------|-----------------------|
| Max. output power including tune-up tolerancel: | 18.47 | (dBm) |
| Max. output power including tune-up tolerancel: | 70.307232 | (mW) |
| Duty cycle: | 67.78 | (%) |
| Maximum Pav : | 47.654242 | (mW) |
| Peak Antenna gain (Maximum): | 8.27 | (dBi) |
| Peak Antenna gain (linear): | 6.7142885 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5230 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.064 | (mW/cm ²) |
| Measurement Result | | |
| The predicted power density level at 20 cm is 0.064 mW/cm ² . | | |
| This is below the uncontrolled exposure limit of 1 mW/cm ² at 5230MHz. | | |

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MPE Prediction (802.11n_HT40 5725~5850)

MIMO gain= $G+(10 \log N)= 5.83+3.01= 8.84\text{dBm}$

| | | |
|---|-----------|-----------------------|
| Average output power at antenna input terminal: | 18.11 | (dBm) |
| Average output power at antenna input terminal: | 64.714262 | (mW) |
| Duty cycle: | 67.78 | (%) |
| Maximum Pav : | 43.863326 | (mW) |
| Peak Antenna gain (Maximum): | 8.84 | (dBi) |
| Peak Antenna gain (linear): | 7.6559661 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5755 | (MHz) |
| | | |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.067 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.067 mW/cm².

This is below the uncontrolled exposure limit of 1 mW/cm² at 5755MHz.

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802.11ac VHT80M Max. output power

802.11ac_VHT80_MIMO

| CH | Frequency (MHz) | Data Rate | AVERAGE POWER (dBm) | | | | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|---------------------|-------|-------|-------|-------------------|------------------|----------------------|--------|
| | | | CH 0 | CH 1 | CH 2 | CH3 | | | | |
| 42 | 5210 | MCS0 | 11.36 | 10.76 | 10.85 | 11.91 | 17.27 | 53.275 | 21.71 | PASS |
| 155 | 5775 | MCS0 | 11.33 | 11.38 | 10.54 | 11.82 | 17.31 | 53.853 | 27.16 | PASS |

MPE Prediction (802.11ac_VHT80 5150~5250)

MIMO gain= $G+(10 \log N)= 5.26+3.01= 8.27\text{dBm}$

| | | |
|---|-----------|-----------------------|
| Average output power at antenna input terminal: | 17.27 | (dBm) |
| Average output power at antenna input terminal: | 53.33349 | (mW) |
| Duty cycle: | 50.55 | (%) |
| Maximum Pav : | 26.960079 | (mW) |
| Peak Antenna gain (Maximum): | 8.27 | (dBi) |
| Peak Antenna gain (linear): | 6.7142885 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5210 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.036 | (mW/cm ²) |
| Measurement Result | | |
| The predicted power density level at 20 cm is 0.036 mW/cm ² . | | |
| This is below the uncontrolled exposure limit of 1 mW/cm ² at 5210MHz. | | |

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MPE Prediction (802.11ac_VHT80 5725~5850)

MIMO gain= $G+(10 \log N)= 5.83+3.01= 8.84\text{dBm}$

| | | |
|---|-----------|-----------------------|
| Average output power at antenna input terminal: | 17.31 | (dBm) |
| Average output power at antenna input terminal: | 53.826978 | (mW) |
| Duty cycle: | 50.55 | (%) |
| Maximum Pav : | 27.209538 | (mW) |
| Peak Antenna gain (Maximum): | 8.84 | (dBi) |
| Peak Antenna gain (linear): | 7.6559661 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5775 | (MHz) |
| | | |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.041 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.041 mW/cm².

This is below the uncontrolled exposure limit of 1 mW/cm² at 5775MHz.

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